THE CHEMIST AND DRUGGIST

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Standard Qualities. Lowest Market Prices.
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Manufacturing Chemists,
BATTERSEA, LONDON. S.W.

Telephones: BATTERSEA 1813 (Six lines).

Index to Advertisers, p. 5

Put another Iron in the fire

You cannot have too many irons in the fire if they are all of the Eucryl Brand.

In

EUCRYL SHAMPOO POWDERS

you have an article which reaches the white heat of perfection. It makes the most luxurious shampoo, and gives a fragrance and lustre to the hair which ladies find most alluring. Foster your lady customers' trade by selling them this sound toilet necessity — they will appreciate it. From your point of view there is a profit of 166% attached to each sale, an advantage not to be overlooked in these days.

Side by side with Eucryl Tooth Powder and Eucryl Tooth Paste you have three superlative lines you can't help selling.

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SOUTHWARK, S.E. 1.

COUPON.

Please send me 3 dozen boxes, each containing 8×2*d.* envelopes Eucryl Shampoo Powder at 8/- dozen boxes net, carriage paid, with free bonus of 1 dozen boxes.

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C. & D.

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Complete Internal and External Antisepsis.

WE have recently perfected an antiseptic of unique properties, for which we have registered the name "**YADIL**" in the principal countries of the world.

This antiseptic is characterised by the fact that, although much more powerful than phenol, it can be taken internally without the slightest risk to the most delicate tissue and membrane, realising at last complete internal and external antisepsis.

Its other characteristics are the following:

Non-toxic, non-caustic. Contains no copper, mercury, arsenic, ether, alcohol, phenol or cresol. Does not coagulate albumen. Does not modify hæmoglobin. Increases the activity of the phagocytes. Is intensely diffusive, and possesses powerful cell-proliferant properties. Does not stain nor deteriorate. Is fully miscible with water, and has strong deodorising powers. Can be used freely internally and externally in all cases of micro-organic infection.

"**YADIL**" is not advertised to the public, but is being made known to the medical profession as fast as possible. Remarkable successes have been obtained in hospital practice, and from hospitals the use of "**YADIL**" is spreading to the Medical profession. The number of prescriptions for "**YADIL**" is increasing rapidly, not only in London, but all over the Kingdom.

We make this announcement in order that Chemists called upon to fill prescriptions for "**YADIL**" may know where to obtain it. Orders should be placed through wholesale firms.

Sizes - -	2 oz.	6 oz.	20 oz.	40 oz.
Retail Prices -	1/6	3/-	8/9	16/-

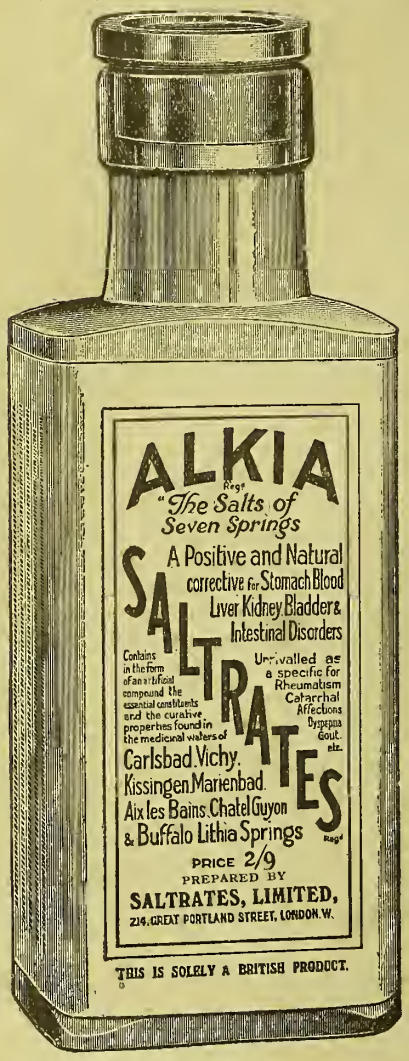
Sole Proprietors and Manufacturers:

CLEMENT & JOHNSON

19 SICILIAN AVENUE, LONDON, W.C. 1.

Two Lines which you, Mr. Chemist,

They always mean a pleased and satisfied Customer,



A FEW GOOD REASONS WHY YOU CAN CONFIDENTLY RECOMMEND OUR PREPARATIONS.

Read what *well-known* users say :

Mr. EUGENE CORRI, of the National Sporting Club, and the world's premier referee, writes: "I have used both of your Saltrates Compounds with the best possible results. Alkia is, in my opinion, the ideal saline, and Reudel could not be improved upon."

JIMMY WILDE, the Welsh wonder, champion of the world at his weight, writes:—"I am glad to testify to the part that Alkia Saltrates and Reudel Bath Saltrates have fulfilled during the training periods prior to my boxing contests. I am never without both at my training quarters, and never will be."

Photo, Swaine.

Corp. JIM SULLIVAN, ex Middle-weight Champion and well-known Army Physical Trainer, writes: "They are two remarkable products. Alkia 'knocks out' any bad case of liver, kidney or other disorders, also clears out all uric acid. Reudel Baths stop any aches, pains or foot troubles in no time at all. Your ad. writer is too conservative."

Mr. HARRY PILCER, the well-known dancer, writes: "I used Reudel to stop rheumatic pains and stiffness, also Alkia to clear the uric acid out of my blood. In one week I was able to walk without discomfort, and commence practising my dances again. In three weeks my serious rheumatic attack was completely and permanently cured."

ALKIA SALTRATES.

A widely advertised product, which is the most efficient saline on the market, and best value for the money. Being highly concentrated, only very small doses are necessary, and there is no trace of unpleasant, salty taste.

Sells at 2/9 a large bottle.

(P.A.T.A.)

Not designed as the cheapest preparations of their

YOU CAN STOCK THESE GOODS ON *GUARANTEED SALE* TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.

Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present large advertising campaign.

can Recommend with Full Confidence

because they do exactly what our advertisements say.

MORE REASONS—

Mr. HARRY LAUDER, the great comedian, writes: "Hearing Reudel Bath Saltrates mentioned as being a likely comfort for the boys in the trenches, and knowing from personal experience that it is excellent, I have sent out several packages which have been much appreciated. If this is of interest I have much pleasure in giving full permission to publish this letter."

Harry Lauder

[Photo, Abdey.

Mlle. GABY DESLYS, the famous Parisian artiste, writes: "I find that a handful of Reudel Bath Saltrates dissolved in the bath makes the water—Oh! so fragrant, refreshing and invigorating! A teaspoonful in a footbath quickly fills the water with oxygen. When the feet are tired, aching or calloused from walking, sports or dancing, these and even worse foot troubles soon disappear."

Gaby Deslys

[Photo, Hana.

Mr. R. G. KNOWLES, the famous music-hall entertainer, writes: "Am entirely out of Reudel Bath Saltrates. Avert a calamity by sending a fresh supply. For tired feet in summer and twinges of rheumatism in winter it is the best ever. Hurry up. S.O.S."

R. G. Knowles

Miss PHYLLIS MONKMAN, the musical comedy actress, writes: "Reudel is wonderful for tired, tender, aching feet, or any other foot troubles. The medicated and oxygenated water has the same effect as that at famous spas."

Phyllis Monkman

[Photo, Wrather & Buys

Hundreds of commendatory letters on file, and open to examination by anyone.

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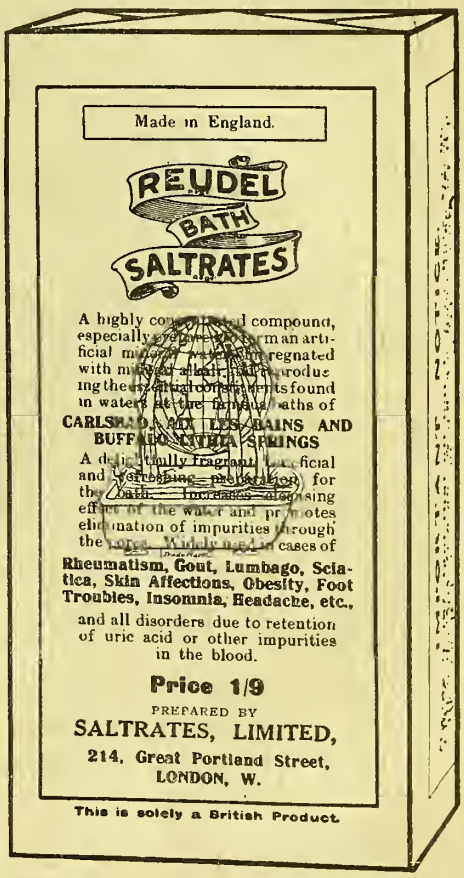

kind, but the best producible, regardless of cost.

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.
Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

Sells at 1/9 and 2/9.

(P.A.T.A.)

WE CAN GUARANTEE IMMEDIATE DELIVERY OF ORDERS FOR ANY QUANTITIES.

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VEN-YUSA

The Oxygen Face Cream

HUGE ADVERTISING!

ENORMOUS SALES!

EXCELLENT PROFITS!

Special Window Show Offer.

	An order, assorted as desired, value
You purchase at gross prices, *i.e.*, 9/3 doz. Ven-Yusa Cream, and 4/7 doz. Ven-Yusa Soap	£1 12 6
We allow you for showing cards	3 9
	£1 8 9
If cash enclosed, deduct 2½ per cent. .... (otherwise net 30 days)	9
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YOUR PROFIT ON THE INVESTMENT—50%

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INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in the front of literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xxviii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1917.

ABRATORS, Ld., Sparklets, Vacuum Flasks 26, 29
ALBERT & CO., Proprietary Ointment xxv
ALLCOCK MANUFACTURING CO., Plasters, &c. xxiii
ALLEN, STAFFORD, & SONS, Ld., Essential Oils, Drug Grinding, &c. 17
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals lx
AMERICAN BUREAU OF FOREIGN TRADE xvii
AMERICAN COMMERCE CO., Ld., Chemicals 6
AMSTERDAM QUININE WORKS, Quinine xiv
ANGLO-FRENCH DRUG CO., Ld., French Props. .. xi
ARMOUR & CO., Ld., Rennet Substitute .....8, Text
ARNOTT, JAMES & SONS, Ld, Petroleum Jellies.... 24
ASSOCIATION OF MANUFACTURING CHEMISTS, Ld. xviii
AYRTON, SAUNDERS & CO. Ld., Tea Tablets 10
BAILEY, ROBERT, & SON, Gauzes, Surgical Dressings xxiii
BAKER, PERCY P., Camel-hair Brushes xxiv
BARKER, REGINALD W., Patent Agent .....Text
BARKER, R., & SON, Infants' Preservative viii
BATH & WEST OF ENGLAND COLLEGE 28
BATTAM & HEYWOOD, Valuers, &c. .....Col. Supp.
BECKER, SHILLAN & CO., Chemicals..... xvii
BERCHAM, THOMAS, Pills viii
BELL, JOHN, & CROYDEN, Ld., Ampoules..... xviii
BERDOE & FISH, Chemists' Valuers, &c. .....Col. Supp.
BISHOP, ALFRED, Ld., Effervescent Proprietaries.. 5
BLACKIE, ROBERT, Ointments, &c. xx
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate xii
BOWLEY, S., & CO., Ld., Parasiticides xviii
BROWN, B., & BRO., Drugs, Chemicals, Vegetable Oils xviii
BRUNNER, MOND & CO., Ld., Alkalies 1
BULL, D. W., Paper.....Col. Supp.
BURGE, WARREN & RIDGLEY, Ld., ...xiii
BURNSIDE & CO., Eucalyptus Oil xviii
BURROUGH, J., Ld., Absolute Alcohol .....Text
BURROUGHS WELLCOME & CO., 'Tabloid' Preps. 31
BUSH, W. J., & CO., Ld., Essences, Perfumery, &c... 16
CADBURY BROS., Ld., Cocoa .....Cover
CARNEGIE BROS., Chemicals, Surgical Dressings xx
CHESTER, A. D., & CO., Ld., Chemicals xvi
CHRISTY, T., & CO., Toilet Articles, Tartar Remover, &c. xxiv
CLEMENT & JOHNSON, Surgical Dressings..... 1
CONNELL, A. & CO., Chemicals..... xiii
COOPER, SON, & CO., Ld., Cachets xxiv
COVERDALE, GEO., & SONS, Dental Mechanics Col. Supp.
CRAVEN & CO., Potato-Spraying Chemicals xxvi
CRAWSHAW, B., & CO., Aniline Dyes xxiv
CUXSON, GERRARD & CO., Ld., Toilet Articles 12
DAVIS, W., Window Display Stands 30
DE ST. DALMAS, A., & CO., Medical Plasters..... xxii
ENO, J. C., Ld., Fruit Saline xxviii
ERASMIC CO., Ld., Perfumery, Toilet Soaps 20
ERHARDT, H., & CO., Ld., Tinfoil 20
EUCRYL, Ld., Dentifrices .....Cover
EVANS SONS LESCHER & WEBB, Ld., Chemicals, Pharmaceuticals, Druggists' Sundries, Serums, Insect Killer, Capsules, Lysol .....Cover, xxv
FABRA CO., Ld., Chemicals xiv
FARROW & JACKSON, Ld., Asbestos Filters xxvii
FAULDING, F. H., & CO., Emulsions, Soaps..... xiv
FENNINGS, A., Fever Powders ..... Cover
FINK, F., & CO., Gums xxiv
FLETCHER, FLETCHER & CO., Ld., Liquors ..... Text
FLOREY, HARTLEY, Salicylates xvi
FORSHAW, R., & SONS, Ld., Soap & Chemical Plant xxvi
FRAME FOOD CO., Ld., Foods..... 25
FUERST BROS., Ld., Chemicals (Pure and Technical).. xv
FULFORD, C. E., Ld., Medicinal Prop., Toilet Articles 4
GARDNER, W., & SONS (Gloucester), Ld., Machinery..xxvi
GATES, LESLIE, Bottle Capping, Goldbeater's Skin.. 18
GATHERGOOD'S, Dr. R. W., EXOR., Crude Drugs viii
GIBBINS, R., & CO., Tablets .....Col. Supp.
GIGNOUX FRERES & CO., French Specialities vii
GIMBER, W., & SON, Crepe Bandages..... xvi
GOODALL, BACKHOUSE & CO. Packed Goods Herbs Cover
GOWER, JOHN, Books (Secondhand, &c.).....Col. Supp.
GRAESSER, R., Ld., Carbolic Acid, &c. .....Col. Supp.
GREEFF, R. W., & CO., Chemicals (Fine and Technical).. 6, 7
HALDER, E. C., Dental Mechanics xxiv
HARKER, C. R., STAGG & MORGAN, Ld., Hair Dyes.. 21
HARRINGTON BROS., Ld., Chemicals..... lv
HARRISON, ALF., & SONS, Chemists' Printing..... xiv
HARVEY & CO. (Dublin). Ld., Veterinary Medicines .. xxi
HENRY, T. & W., Calcined Magnesia xiii
HEWLETT, C. J., & SON, Ld., Pharmaceutical Preps. 25
HILLMAN GANE, C., Sugar Substitute .....Text
HOFFMANN-LA ROCHE CHEMICAL WORKS, Ld. v
HOLLANDSCHE MELKSUIKERFABRIEK, Milk Sugar xvi
HOUGH, HOSEASON & CO., Ld., Antiseptics..... xix
HUISKING, C. L., American Drugs, Chemicals, &c..... xii
INGRAM, FREDK. F., CO., Toilet Cream..... 18
ISAACS, I., & CO., Medical Glassware.....Col. Supp.
JOB BROS., Newfoundland Cod Liver Oil 29
JOHNSON & SONS (Mnfg. Chts.), Ld., Fine Chemicals.. lv
JOSEPHS, PHILIP, & SONS, Ld, Shopfittings....Col. Supp.
KENT, G. B., & SONS, Ld., Brushware (all kinds)..... 22
KIRBY, H. & T., & CO., Ld., Aspirin xiii
LANG, JULES, & SON, Medical & Chemical Glassware.. xxi
LENNON Ld., South African Agencies..... lv
LENNOX FOUNDRY CO., Ld., Chemical Plant xxvi
LEVERMORE, A., & CO., Precipitated Chalk xxiv
LOFTHOUSE & SALTMER, Ld., Foods, Asthma Remedies 13
LORIMER, J., Foods, Antiseptics, Perfumes 22
M'GLASHAN, D., Fruit Drink .....Col. Supp.
McKESSON & ROBBINS, American Drugs 21
MADERO BROS. INC., Chemicals iii
MANBRE SACCHARINE CO., Ld., Glucose..... 26
MANSON, R., Indiarubber Goods xiii
MARTIN, W., Photographics .....Col. Supp.
MASON BROS. & CHAPMAN, Catheters xxv
MAW, S., SON & SONS, Ld., Druggists' Sundries 11
MAY & BAKER, Ld., Chemicals, Mercurials .....Cover
MENLEY & JAMES, Ld., Pharmaceutical Props. 30
MILLAR, A., & CO., Ld., Orange Quinine Wine xxv
MITCHELL, N. W., & SONS, Ld., Chemists' Corks .. 22
MOND NICKEL CO., Copper Sulphate xii
MONSANTO CHEMICAL WORKS, Glycerophosphates xv
MULFORD, H. K., CO., Bacterins, Serums x
NEWBALL & MASON, Botanic Drugs, Herb Extracts 26
NICHOLS CHEMICAL CO., Ld., Precipitated Chalk .. vi
NORTHERN TIN CANISTER WORKS, Tin Boxes..... 22
ODOL CHEMICAL WORKS, Dentifrices 21
ORBIDGE & CO., Chemists' Valuers.....Col. Supp.
OURY, MILLAR & CO., Gelatines..... 27
PAGE, CHAS., & CO., Ld., Chemicals xii
PAPIER POUDRE, Ld., Toilet Preparations 14
PARKE, DAVIS & CO., Pharmaceuticals 15
PEARSON, E. T., & CO., Ld., Salicylic Acid, Foods .. xv
PEERLESS SEAMLESS RUBBER CO., Ld., I.R. Teats xxi
PERRY & HOPE, Ld., Malt Extract Preps. xiv
PICERNO, V. A., Chemicals xvi
PICKARD, IVE & RANKIN, Ld., Acetylsalicylic Acid .. vii
PIERSON, MORRELL & CO., Aspirin vii
PREMIER DRUG CO., Ld., Rubber Surgical Goods .. xxv
PRIDEAUX'S Ld., Casein .....Col. Supp.
RAIMES & CO., Bronchial Wafers..... vi
RAWORTH, J. E., Patent Agent xxiv
RANSOM, W., & SON, Ld., Lavender Oil, Peppermint Oil, Resins, and Resinoids, Medicinal Extracts ..Cover
REDDGRAVE, BUTLER & CO., Liquid Paraffin 9
RIGAUD-CHAPELLE, French Proprietaries, &c. 19
RIGOLLOT, Mustard Leaves..... 25
ROBARTES, Ld., Toilet Specialities 22
ROBINSON & SONS, Ld., Carbons, Surgical Dressings 13
ROLLIN CHEMICAL CO., INC., Chemicals 6
RUCH, A., & CO., Ld., Glassware..... xx
RUDDUCK & CO., Chemists' Shop Fittings .....Col. Supp.
SAINT-RAPHAEL WINE CIE, Tonic Wine 29
SALTRATES CO., Bath Salts 2, 3
SANITAS CO., Ld., Disinfectants .....Text
SHADEINE CO., Hair Dyes xxiv
SIM, Ld., Ampoule Files xvi
SINGLETON & COLE, Ld., Tobacco and Cigars xxiv
SMITH, J. H., & CO., Fly Catchers xxv
SMITH, T. & H., Ld., Alkaloids, Resins & Resinoids .. ii
SOLAZZI, Liquorice Juice xviii
STANDARD HEALTH FOOD CO., Honey 25
STEAD & CO., Photographics .....Col. Supp.
STEARNS, F., & CO., Pepsines, Organotherapy Products ii
STERNS, Ld., Petroleum Jelly 13
STIPENDUM STOPPER CO., Boxes, Stoppers..... 30
SWISS BANK CORPORATION, Banking, &c..... xvi
SYMPHELITE CO., Cooking Stoves, &c..... xxii
THAMES CHEMICAL CO., Ld., Wrinkle Remover....xxiv
THOMPSON & CAPPER, Ld., Pharmaceutical Machinery xxvii
THORNLEY, S., Ld., Methylated Spirit 22
TIMPSON, JOHN, & CO., Ld., Antiseptic Powder 24
TITTERTON & HOWARD, Brushware (all kinds) 18
TOLKOWSKY, S., Russian Crude Drugs, &c..... x
TOMLINSON & HAYWARD, Ld., Seed Dressing, &c...Text
TOMLINSON, THOS., & SON, Chemists' Valuers Col. Supp.
TOOGOOD, W. Ld., Druggists' Sundries..... 12
TOPLIS & HARDING, Dyestuffs, &c. .....Col. Supp.
TOWNSEND, J., & SONS, Chemists' Printing 28
UNIVERSITY OF BIRMINGHAM..... 28
VAN HORN & SAWTELL, Surgical Ligatures xxiv
VISCOSE CO., Ld., Bottle Cappings 22
VITAMOGEN, Ld., Food Product..... 25
WARRICK BROS. Ld., Cachets, Capsules, Lozenges.. 32
WARRINGTON CHEMICAL & DRUG CO., Salicylic Acid xvi
WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts.. xiii
WATFORD MANFG. CO., Ld., Soup Cubes 28
WATSON & CO., Photographics .....Col. Supp.
WEST END PHARMACY SUPPLY, Cachets, Capsules xxiv
WESTMINSTER COLLEGE OF PHARMACY 28
WHIFFEN & SONS, Ld., Emetine Salts, Quinine, &c... xiii
WHITAKER & CO., Hat Dyes 20
WIENER, ROBT. O., & CO., Drugs, Chemicals, Waxes xvii
WIGGLESWORTH Ld., Tablets, Pharmaceuticals ....Cover
WILKINSON, S. W., & CO., Tablet Machinery xxvii
WILLIAMS BROS. & CO., Aniline Dyes, Chemicals .. 23
WORCESTER ROYAL PORCELAIN CO., Ld. xxvii
YOULDON, E., Ld., Medical Glassware xxi

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CHEMISTS CAN CONFIDENTLY RECOMMEND

Bishop's Natural Fruit Saline

This exceptionally palatable saline, manufactured by a special process, **WITHOUT SUGAR OR SACCHARINE**, is enjoying a widely increasing demand.

RETAIL 1/9 P.A.T.A. WHOLESALE 15/- per dozen, subject.

8-oz. Bottle in Striking Litho. Wrapper.

Orders of £5 value, 10% discount, Carriage Paid.

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QUININE and QUININE SALTS.

Fully answering requirements of B.P. and other Pharmacopœias, Unexcelled in Uniformity of Quality, Brilliant Crystallisation and Purity of Colour.

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PRECIPITATED SULPHATE OF BARIUM (Blanc Fixe, Dry).

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BARIUM NITRATE.

BARIUM CARBONATE, 99%

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19 St. Bride Street, London, E.C.

METHYL SALICYLIC

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BRIDGE BRAND

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Hexamine
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Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
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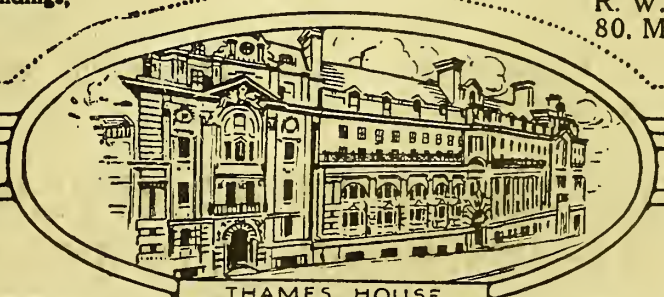

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Trade Mark Applied for.

A MILK-CURDLING FERMENT RECOMMENDED as EQUAL to STANDARD

RENNET

FOR

CHEESE MAKING.

"RENSIN" is a new product of the Armour Laboratories, intended to meet the most exacting demand of the trade for a reliable curdling agent that does not require any change in the customary methods or processes of Cheese making.

"RENSIN" has been carefully tested and proven in both the Laboratory and the Cheese Factory.

"RENSIN" is equal to Standard Rennet in the formation of a uniform and solid junket.

"RENSIN" is rapid in action under usual factory conditions.

"RENSIN" The price is less than that of most brands of Standard Rennet.

"RENSIN" is supplied in Quart, Half-Gallon, and Gallon Bottles, 10-Gallon Kegs, and 36-Gallon Barrels. Order from your Wholesaler.

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ESSEX HOUSE, STRATFORD, E. 15.

Telephone : Stratford 799.

PARAFFINUM LIQUIDUM, B.P. WHITE OILS.

WE CAN OFFER FOR IMMEDIATE DELIVERY

GENUINE RUSSIAN PARAFFINUM LIQUIDUM

B.P.

(BRITISH REFINED.)

SAMPLES and PRICES UPON APPLICATION.

WE DO NOT NEED A PRIORITY CERTIFICATE FOR DELIVERY OF THIS MATERIAL.

We reproduce

one of the Advertisements which are increasing the sales of AYRTON'S TEA TABLETS.

P.A.T.A. PRICES are : Retail 9½d. per tin.
Wholesale 7/6 per doz. ; 88/- per gross.

365

Spoonsful of Tea Saved!

Once a day you make yourself a cup of tea. It is a habit as wise as it is enjoyable, for it economises time by renewing your energy.

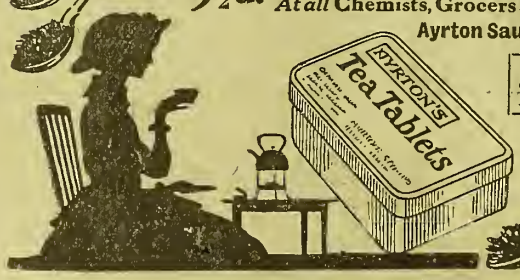
But if you make it in the old tea-pot way it is somewhat wasteful of tea. There is always that annoying but inevitable "spoonful for the pot"—365 such spoonsful in a year!

You can avoid that waste and save yourself much time and trouble by using

AYRTON'S Tea Tablets

Their convenience will appeal to you first, but you will buy them afterwards for their perfect flavour.

9½d. a Tin — containing 50 Tablets. *At all* Chemists, Grocers & Stores. *If any difficulty in obtaining, write to*
Ayrton Saunders & Co, Ltd, Liverpool.



No Picnic Basket is properly equipped without a tin of Ayrton's Tea Tablets.

If you require fresh show material for present stocks, drop us a line. Get the full value of the advertising.

The Shortage of Sugar

should mean an increased consumption of Junket. We have a talk-card on the subject for our Rennet Tablets.

Tubes of 16, **4/6** per doz. *Name on 3 doz., and a card with all orders.*

AYRTON, SAUNDERS & CO., Ltd.,

Wholesale Druggists, LIVERPOOL.

TELEPHONE, CITY 7 PRIVATE BRANCH EXCHANGE
TELEGRAMS ELEVEN CENT, LONDON

Maw's Page

S. MAW SON & SONS LTD.
(G.P.O. BOX No. 54)
7-12 ALDERSGATE ST.
LONDON E.C.1

NUMBER 301 JULY 21, 1917

CABLES ELEVEN LONDON
CODE A.B.C. 4TH & 5TH EDITION

When we return to our normal Peace conditions, we shall look back upon these business times with pride and satisfaction at the high level of enterprise maintained by this House.

TYPICAL WAR-TIME "MAW" VALUE.

MAW'S ANTISEPTIC DRESSING BOXES, lettered in contrast, to carry own selection of Dressings, &c., as may be required.

B1310/B. Japanned Tin, 13×7½×7½ in., each, white **12/-**; black **10/6**.

B1311/B. Ditto, with partitioned tray, 16×10×10 in., each, white **25/6**; black **22/6**.

B1312/B. Ditto, ditto 20×12×12 in., each, white **30/-**; black **28/-**.

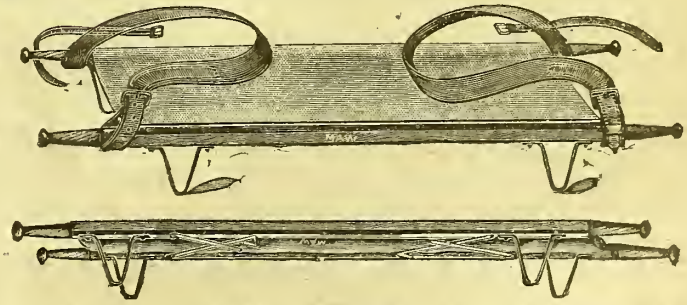
For other appliances and outfits for Ambulance Work particulars and prices on application.

"FIRST AID."

D2/B Japanned Tin ... ... each **7/3**

CONTENTS.

1 roll	Adhesive Plaster, ½ in.	1 oz.	Lint, Boric.
2	Bandages, 3 in.	1 yard	Gauze, Lister's Cyanide, 1
2	" 2½ in.		Needles and Thread.
2	" 1½ in.	2 ozs.	Sal Volatile, in glass bottle.
1	" triangular.	1 pair	Scissors.
1	Bandage Winder.	1 oz.	Wool, Boric.
1 tin	Boric Ointment.		



BRITISH RED CROSS PATTERN HAND STRETCHERS, with ash poles, folding steel traverses and iron loop legs ... ... **30/-** each.
Total length, 7 ft. 9 in.; Width 1 ft. 11 in.; Height 6 in. Weight 21 lbs.
Slings, Webbing for ditto ... ... **4/6** per pair.

HENNA SHAMPOOS

The box of 7.

The only Shampoos made with a Potash Soap base. The hair is left very soft and wavy. The perfume is so delightful that repeat business is assured.

Prices: Loose, 13/- per gross packets.
Box of 7, 8/- per doz.

Special Quotation to the Wholesale and Export trade.

THE EMPIRE PERFUMERY CO.,
CUXSON, GERRARD & CO., Ltd., Proprietors,
Oldbury, England.

The Sales-Compelling Showcard.

TOOGOOD'S SHAMPOO POWDERS

EGYPTIAN HENNA SHAMPOO POWDER.

In boxes containing 7 Powders. Superior Quality and Delicately Perfumed, 10/6 per dozen boxes.

PINE, 7/6 doz.

PINE & HENNA, 8/9 doz.

PINE.
In Envelopes, 7 in box, 7/6 per dozen boxes.

PINE & HENNA.
In Envelopes, 7 in box, 8/9 per dozen boxes.

Customer's name free on 3 dozen boxes or bottles.

MANUFACTURED ONLY BY—
WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E. 1.

CARTONS FOR STOCK LINES

WE HAVE A LARGE VARIETY OF CARTONS IN STOCK, ONE OF WHICH WE ILLUSTRATE ABOVE. THE WORKMANSHIP IS GOOD THROUGHOUT, AND WE CAN RECOMMEND THEM TO ALL WHO WISH TO SEE THEIR GOODS WELL PACKED.

WE SHALL BE GLAD TO SEND SAMPLES OF ANY OF THE FOLLOWING CARTONS FOR

BLOOD MIXTURE
CAMOMILE
COUGH BALSAM
EMBROCATION
FRUIT SALINE
HAIR RESTORER
HYPO
LEMONADE CRYSTALS
NEURALGIA MIXTURE
SENNA
SEIDLITZ POWDERS
SYRUP OF FIGS
ETC. ETC. ETC.

ROBINSON & SONS, LTD.

BOX MAKERS TO THE CHEMIST TRADE

CHESTERFIELD & LONDON.

Liquid Paraffin B.P.

Petroleum Jelly

Brilliantine Oils

STERNS LTD.,

Royal London House,
FINSBURY SQUARE, LONDON, E.C.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
" " " " " "	1/2	10/-
" " " " " bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

PAPIER POUDRÉ
AND "POPPŒA" PREPARATIONS.

TRADE MARKS

"LEHCARESOR."

Papier Poudré

BRITISH MADE GOODS

OUR
PAPIER POUDRÉ
has stood the test of
PURITY
for
25 YEARS

Beware of Spurious Imitations.

REGISTERED

PAPIER POUDRÉ, LTD.
20 Baker St., Portman Sq. London, W.
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

PAPIER POUDRÉ.

IN WHITE, ROSE, or RACHEL TINTS, 3d., 4½d., 6d., and 1/- size Booklets.
2/-, 2/6, 3/9 and 7/6 per doz. net respectively.
SUNBURN TINT, 6d. and 1/- sizes, only 3/9 and 7/6 per dozen net.

NEAT 1/- MIRROR CASES, containing pads of PAPIER POUDRÉ	7/6	per doz.
REFILLS to these MIRROR CASES	2/-	"
SMALL SIZE, DOUBLE LEAVES, for purse or glove	1/3	"
6d. SHAVING PADS (unscented, white only)	3/9	"

THE ALL-BRITISH "POPPŒA" PREPARATIONS.

"Poppœa" REGISTERED TRADE MARK ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 3d., 6d., and 1/- each.
2/-, 4/-, and 8/- per doz. respectively.

IN MIRROR CASES, 1/- each, 8/- per doz.
Refills, 2/8 per doz.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars 9/6 and 28/- per dozen.
"POPPŒA" CREME POUDRE, in Bottles, 9/- and 26/- per dozen.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQUARE, LONDON, W.1.

SEASONABLE SUGGESTIONS

Euthymol
TOILET PRODUCTS

pay handsomely for "pushing." Pharmacists everywhere, and particularly those in season places, or in the vicinity of military camps or naval bases, will do much to secure their full share of the steadily increasing demand by maintaining prominent counter and window displays. In spite of the greatly increased cost of manufacture and distribution, the retail and wholesale prices remain the same, except Euthymol Shaving Stick. The price of this British-made soap has been levelled up to that of Euthymol Tooth Paste, and shows a better margin than ever for the retailer.

NOW is also the time to PUSH the following popular and profitable British-made preparations :—

Analgesic Balm

An effective counter-irritant, with decided analgesic properties, for the bites and stings of insects.

Collapsible Tubes
M.R.P. 1/6

Rennin Tablets

A convenient, economical and reliable preparation for making junket or curds and whey. One to three pints.

Bots. of 20 and 40
M.R.P. 7½d. and 1/-

Hydrated Magnesia

An efficient antacid. Each fluid ounce contains 32 grains of magnesium hydrate in a stable form.

8 & 16 fl. oz. bots.
M.R.P. 1/2 & 2/-

Tarfoam

An antiseptic and refreshing liquid shampoo for the hair, hands, bath, &c. Economical in use.

Sprinkler bots.
M.R.P. 2/6

33% Petroleum Emulsion with Hypophosphites.

Made with a particularly pure liquid petrolatum, selected on account of its high viscosity.

4, 8 & 16 fl. oz. bots.
M.R.P. 1/2, 1/8, 3/-

Water Sterilising Tablets

Approved by the War Office for purifying water and rendering it not only fit, but pleasant to drink.

Vest-pocket Vials of 50
M.R.P. 1/6

All of the above bear the usual P., D. profit.

Write for special terms, &c., to :—

PARKE, DAVIS & CO.

50-4 Beak Street, LONDON, W. 1.

Laboratories :: Hounslow, Middlesex.

T. J. 29.

THE ORIGINAL ENGLISH PERFUME

Owing to the drastic measures taken by the Minister of Munitions with reference to Perfumery Spirit, prices are subject to revision.

Same can be obtained on application.

P&M

1749

Owing to the drastic measures taken by the Minister of Munitions with reference to Perfumery Spirit, prices are subject to revision.

Same can be obtained on application.

POTTER & MOORE
MITCHAM

SOLE PROPRIETORS:

W. J. BUSH & CO., Ltd., Ash Grove, Hackney, London, E. 8.

HIGHEST AWARDS

Chicago, 1893.
St. Louis, 1904.
Brussels, 1910.

ALLEN'S

NEW SEASON'S

GREEN

EXTRACTS

AND

LEAVES

EXT. BELLADONNÆ VIRIDE
„ HYOSCYAMI „
„ CONII
FOL. BELLADONNÆ ELECT.
„ DIGITALIS „
„ HYOSCYAMI BIENN. (2nd Year).

PRICES ON APPLICATION.

ESTABLISHED 1833.

STAFFORD ALLEN & SONS, LTD.

MANUFACTURING CHEMISTS,

Cowper Street and City Road, LONDON, E.C. 2.

Herb Farms and Distillery: LONG MELFORD, SUFFOLK.

Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

INGRAM'S OFFER.

½ Doz. Milkweed Cream	Retails for 2/- each	(2.00)	8/-
½ Doz. Velveola Souveraine (Face Powder)	,, ,, 2/- ,,	(2.00)	8/-
½ Doz. Zodenta Paste	,, ,, 1/- ,,	(1.00)	4/-
¼ Doz. Rouge...	,, ,, 2/- ,,	(1.00)	4/-
½ Doz. Perfume, 1 oz. ass't. in fancy packages	,, ,, 4/ ,,	(4.00)	16/-
		10,00	£2

Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

If more convenient to you, specify shipments from our Canadian Branch.

FREDERICK F. INGRAM CO.

(ESTABLISHED 1885)

411 Lafayette Blvd. W., DETROIT, U.S.A.

CANADIAN BRANCH : WINDSOR, ONT.

Twenty-five years continuous advertising has made this trade-mark known wherever American and Canadian publications are read.

TITTERTON'S CELEBRATED HAIR BRUSHES

GOOD PROFITS are made by selling **TITTERTON'S CELEBRATED BRUSHES**

(Hair, Tooth, Nail & Shaving Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.

Illustrated Catalogue on application.

TITTERTON & HOWARD,

Brush Manufacturers,

8 & 10 Great Titchfield St., London, W.

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS

SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I am putting this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

Sole Pioneer and Only English Manufacturer:

LESLIE GATES,

3 Nightingale Rd., Clapton, E.5.

Telegraphic Address: "Englishism, Lowclap, London." Telephone: Dalston 1207.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

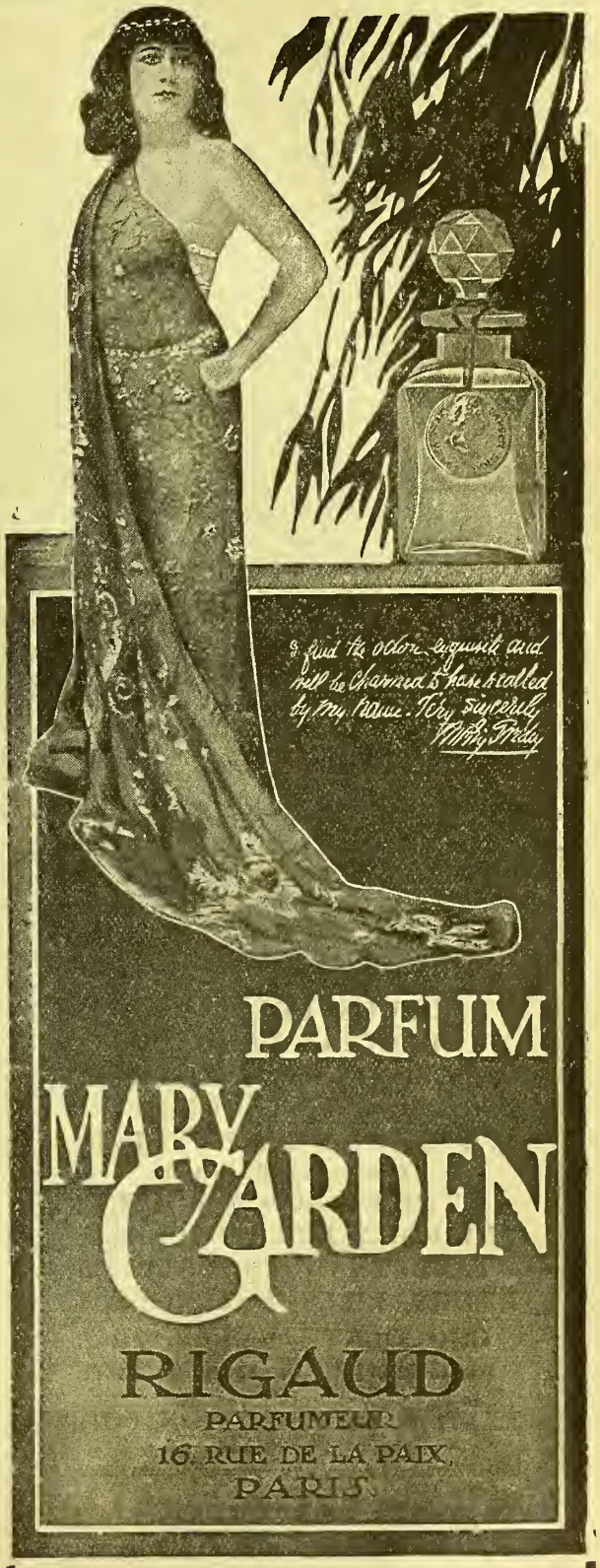
LABORATORY OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.
LONDON AGENTS:
WILCOX, JOZEAU & CO., 49, Haymarket, S.W.

CHAPOTEAUT'S CAPSULES of PHOSPHOGLYCERATE of LIME.
THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.
Sold by all Chemists.
Wholesale: 8, Rue Vivienne, PARIS.

MORRHUOL CHAPOTEAUT

CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.
SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)
A harmless antiseptic preventative against CHOLERA FERMENTATION - INDIGESTION & other intestinal disturbances.
SOLD BY ALL CHEMISTS



LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

"ERASMIC" TOILET CREAM

Ref. No. 320.

SPECIAL OFFER.

With all orders for

	£	s.	d.
3 dozen 1/- pots, at 8/6 per dozen -	1	5	6
less 5 per cent. discount		1	3
	£1	4	3

we give six 1/- pots gratis.

A Profit of 73 per cent. on cost price.

Send for full particulars at once, as this special offer is likely to be withdrawn shortly.

"ERASMIC," Perfumers, WARRINGTON.

TINFOIL PURE TIN (Free from Lead).

All Thicknesses, Sizes, Shapes, and Designs for the Wrapping of

DRUGS, CHEMICALS, PLASTERS, BANDAGES, AND SANITARY APPLIANCES.
BOTTLING FOILS.
SHAVING SOAPS FOILS (Designed and Perforated).
TOILET SOAPS FOILS, AND FOILS FOR COMPRESSED TABLETS OF FOODSTUFFS, DRUGS, PILLS, LOZENGES, &c.
CHOCOLATE (Embossed or Printed).
Also in REELS for WRAPPING MACHINES and
LEAD & COMPOSITION FOILS for special Chemical Wrapping.

H. ERHARDT & CO. Ltd.
9 & 10 Bond Court, Walbrook, LONDON, E.C.
Established 1870. Telephones 383 and 384 City.
Telegrams: "ERHARDT LONDON."

8d.

Make your old Hat a new one.

In bottles, 8d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.
On the P.A.T.A.
WRITE FOR TERMS, PATTERNS, ALSO LEAFLET OF TESTIMONIALS.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.
London Depot; 60-62 Clerkenwell Road, E.C.
"Glossy" Series supplied if desired.
Special Non-Inflammable Series for Export. *Est. 1878*
Telegraphic Address: "Dullette Kendal." Telephone: No. 214

Calox Selling Points *for* Chemists

"When baby's first tooth comes it's a family event. Pay as much attention to all the teeth as to the first. Have the youngsters use CALOX regularly—and use it yourself. The Oxygen in CALOX keeps the teeth clean, sound and white, purifies the mouth and sweetens the breath." (1)

Price to Trade, 11/- per Dozen.

P.A.T.A. Plan, Stamped.

McKesson & Robbins (Incorporated), New York, U.S.A.

Manufacturers.

British Depot—G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.
Canadian Depot—Messrs. HAROLD F. RITCHIE & CO., Ltd., 10 McCaul Street, Toronto.
Australian Depot—Messrs. GEORGE WILLS & CO., Ltd., Adelaide, Melbourne, Sydney, Brisbane and Perth.
New Zealand Depot—KEMPTHORNE, PROSSER & CO.'S NEW ZEALAND DRUG CO., Ltd., Dunedin, Christchurch, Wellington and Auckland.
French Depot—Messrs. ROBERTS & CO., 5 Rue de la Paix, Paris.
Spanish Depot—COMPANIA DENTAL ESPANOLA, Cedaceros 4, Madrid.
Philippine Islands—MANILA TRADING & SUPPLY CO., Manila.
Argentine Republic—WM. BURMESTER, Buenos Ayres.
Chili—HUMBERTO CARASCO, Valparaiso.

BRITISH NOW

C.V. & S.—3.

Send for Price List and Trading Terms.

ODOL
Chemical Works,
BERKHAMSTED.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.

Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, LTD., BIRMINGHAM

SUPPORT HOME INDUSTRIES.

Estd. 1777.

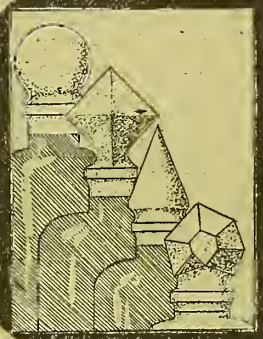
C.B. KENT & SONS LTD

BEST BRITISH BRUSHES.

Incd. 1900.

BUY KENT'S BRUSHES.

Diary 1917, pp. 108, 109.
Winter Issue, 1917, pp. 68, 69.



SPHERICAL, CUBOIDAL, CONICAL, and POLYHEDRICAL shapes can all be equally well-capped with

SEMREH

SELF-FIXING, SELF-FITTING BOTTLE CAPS

DETAILS FROM THE VISCOSE Development Co., Ltd., BROMLEY, KENT.

DECOLTENE
The liquid hair remover

Dinkie
The Dainty Deodorant

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Ask your wholesaler. Both articles largely advertised.

SATISFACTION GUARANTEED OR MONEY BACK.

TRADE TERMS.

DECOLTENE. Advertised and min. Retail price 3/9
Trade 30/- per doz.

DINKIE. Advertised and min. Retail price 2/6
Trade 20/- per doz.

5% cash with order
Carriage paid on £1 lots.
Particulars on request.

ROBARTES, LTD.,
128 JERMYN STREET,
LONDON, S.W.1
Telephone - - Gerrard 3672.

Headquarters for British Manufactures of

Acid Acetylsalicylic
Silver Proteinate
Silver Nucleinate
Lanoline Sanatogen

JOHN LORIMER

119 Finsbury Pavement, London, E.C.

Sound Corks

Sound as the Pyramids

Trade-marked in this way so that their predominating qualities may "stand out" more than ever. You try them and see! And if you're not satisfied send them back and get your money.

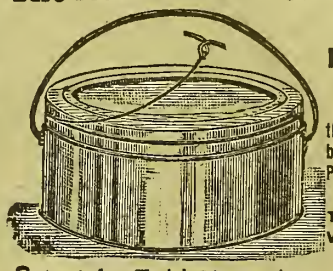
PYRAMID TRADE MARK

Pyramid Corks - the kind that stand the test. Write to-day please

N.W. Mitchell & Sons, Ltd.,
The Cork Firm, London, E.14.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.



We manufacture for the paint trade in all its branches—Decorated and Plain work.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Patent Air Tight Slip-lid Tin For Export.

Prompt Deliveries Assured.

FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

for

CONFECTIONERY
(Harmless)
MINERAL WATERS
(Acid-proof)
GELATINE
LEATHER
SOAP
VARNISH
BOOT POLISH
WRITING INK
ENDORSING INK
RULING INK
STENCIL INK
PRINTING INK
WOOD STAINS
SIZE
COTTON
WOOL
SILK
COIR YARN
JUTE
&c. &c.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS
in 1/- Tins.

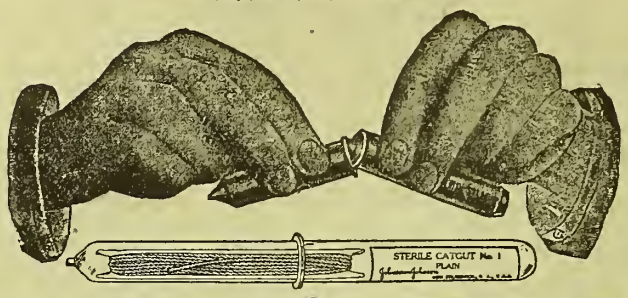
WILLIAMS BROS. & CO.

Hounslow, Middlesex.

LIGATURES.

BREAKABLE TUBES.

LIGATURES.



LIGATURES.

RELIABLE

In ligature and suture material, there can be nothing better conceived for the sterile and aseptic preparation and conveyance of the same, than a hermetically sealed glass tube. Catgut or silk, as it is prepared in our laboratories must reach the surgeon's hands in absolutely sterile condition.

This is our positive guarantee.

These Tubes possess advantages known to no other tubes. The perfection of Johnson & Johnson's Laboratory preparation of Ligature and suture material cannot be obtained elsewhere.

Specify

JOHNSON & JOHNSON,

or write for

"HANDBOOK OF LIGATURES"

and sample of STERILE CATGUT.

To Sole Agents:

JOHN TIMPSON & Co., Ltd.,

104, Golden Lane, E.C.

TELEGRAMS: "POROUS LONDON." TELEPHONE: CITY 6910.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

VITAMINES.

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The demand for copies of the above has been considerable, but we have still a few left and solicit inquiries. Further information from the following :

CASIMIR FUNK, *Journal of Physiology*, Vol. 43, p. 395, 1911 ; Vol. 45, p. 489, 1913 ; Vol. 46, p. 173, 1913 ; Vol. 47, p. 389, 1913.
British Medical Journal, 1914, p. 1348.
Lancet, January 10, 1914, p. 98 ; also March 18, 1916, p. 631.
Journal of State Medicine, June, 1912.
HOPKINS, *Lancet*, Nov. 8, 1913 ; *Journal of Physiology*, Vol. 44, p. 361, 1912.
OSBORNE AND MENDEL, *Journal of Biological Chemistry*, Vol. 15, 1913 ; Vol. 16, 1913.

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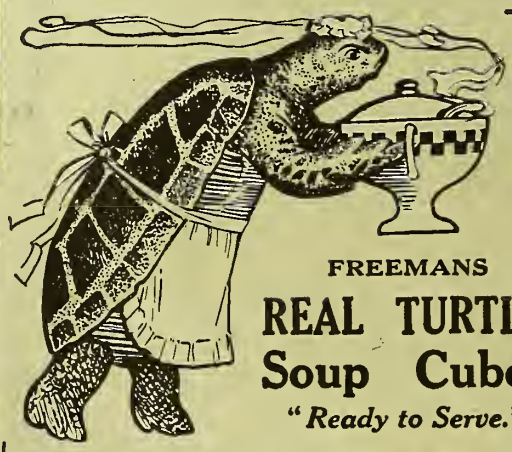

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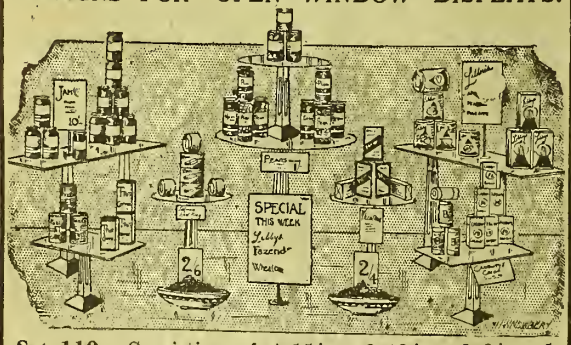

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CONTENTS: No. 29 (Series No. 1956), Vol. 89.

	PAGE
Association Affairs	46
Bankruptcy Report	38
Births	40
Business Changes	39
Company News	39
Correspondence:	
Letters	50
Subscribers' Symposium	51
Legal Queries	51
Miscellaneous Inquiries	52
Deaths	40
Editorial Articles:	
Spirit Questions	42
Six Months' Foreign Trade	43
Ropiness in Bread	43
Price of Aerated Waters	44
The Elusive Balance-sheet	44
Progressive Pharmacy Club	44
Killing Flies	44
English News	35
European War	33
India and the East	37
Information Department	40
Insurance Act Dispensing	46
Irish News	36
Legal Reports	38
Marriages	40
Military Tribunals' Decisions	39
Observations and Reflections	41
Personalities	40
Pharmaceutical Society of Ireland:	
Council-meeting	44
Poisonings	36
Retrospect	52
Scottish News	37
Society of Chemical Industry	47
South African News	37
Trade-marks	39
Trade Notes	39
Trade Report	48
Westminster Wisdom	45
Wills	33

Wills.

MR. FREDERICK BIRTWELL BENNETT, chemist and druggist, Whitehaven, who died on March 12, left estate valued at 2,327*l.* 11*s.* 3*d.* gross, with net personalty 1,000*l.* 7*s.* 4*d.*

MR. JOHN ISAAC GOLDHILL, 136 Broadhurst Gardens, London, N.W., who died on January 30, left estate of the gross value of 8,395*l.* 9*s.* 11*d.*, with net personalty *nil.*

MR. PAUL MORITZ WILHELM HECKER, Wrotham Hill Park, Wrotham, who died on May 12, left property of the value of 29,680*l.* 13*s.* 9*d.*, of which 16,154*l.* 12*s.* is net personalty.

MR. HUGH WHITTLE, chemist and druggist, 285 Park Road, Oldham, who died in April last, left estate of the gross value of 826*l.* 19*s.*, with net personalty 468*l.* 0*s.* 2*d.*

MR. FRANCIS SUTTON, analytical chemist, 32 Lower Close, Norwich, who died on April 16, left estate of the gross value of 13,149*l.* 5*s.* 6*d.*, of which 11,168*l.* 5*s.* 2*d.* is net personalty.

MR. WILLIAM FOGGITT, J.P., chemist and druggist, of South Villa, Bagby, near Thirsk, who died on May 10, left estate of the value of 27,089*l.* 19*s.* 3*d.*, the net personalty being 10,493*l.* 15*s.* 5*d.*

MR. GEORGE DUNCAN MACKAY, Inveralmond, Cramond Bridge, managing director of John Mackay & Co., Ltd., Canning Street, Edinburgh, who died on December 31, left personal estate in the United Kingdom valued at 3,898*l.*

European War News.

Import and Export Notices.

UNITED KINGDOM.—A number of alterations have been made in the prohibited lists for the purpose of reclassification. In the following the parenthesised letters show the class: Chemicals, etc., the following: (A) Potassium bicarbonate and mixtures containing potassium bicarbonate; (C) sera, except anti-tetanus serum; (C) sodium sesquicarbonate; (A) castor oil and articles and mixtures containing castor oil. (A) Tobacco, unmanufactured; (C) tobacco, manufactured; (A) wax, carnauba.

Creosote Controlled.

The Minister of Munitions has issued an Order, dated July 13, by which creosote, green oil, sharp oil, and any oil produced from or containing an admixture of oil produced from the distillation of coal-tar, or any of them, can be dealt in without a licence issued under his authority, application for which should be made to the Director-General of Munitions Supply, Whitehall Place, London, S.W. 1, and marked "Creosote licence." Henceforth no creosote, whether as a solvent or otherwise, can be used for waterproofing, the treatment of timber, or preservation of any road or path in the United Kingdom except under licence. The Minister also requires that all users or consumers of creosote oil, green oil, sharp oil, anthracene oil, or other oils with a specific gravity of 1.000 or more, distilled from coal-tar, and all oils with a specific gravity of 0.950 or more distilled from other tars, shall within fourteen days of the date of the Order furnish to the Controller of Mineral Oil Production, M.P.S.3, 8 Northumberland Avenue, London, W.C. 2, the following particulars: (1) The source or sources from which their present supply is obtained. (2) The quantities of such oils used or consumed by them from January 1, 1917, to June 30, 1917. (3) The quantities of such oils which it is anticipated will be used or consumed by them from July 1, 1917, to December 31, 1917. (4) Full details of the purposes for which such oils have been or are intended to be used or employed.

Personalia.

THE Military Cross for conspicuous gallantry in action has been awarded to Second-Lieutenant A. Dundee, Royal Irish Rifles. He is a brother of Mr. James Dundee, Ph.C., Malone Pharmacy, 95 University Road, Belfast, the Hon. Secretary of the North Irish Pharmacists' Association. Before the war he was in business with his brother in the pharmacy. He is the second local chemist to win this decoration since the New Year, the other being Second-Lieutenant H. F. Addy (*C. & D.*, May 19, p. 34).

SECOND-LIEUTENANT DUNDEE.

PRIVATE P. HOWARD, St. John's Ambulance Brigade Hospital, B.E.F., who is in civil life one of the dispensers at the Brownlow Hill (Liverpool) Poor-law Institution, writes to a Liverpool pharmacist describing two short periods of initial work at Blackpool and Salisbury Plain. He adds: "I was just settling down at Tidworth when I was sent off at less than twenty-four hours' notice to my present hospital, 'somewhere in France,' my only possessions in a pack on my back. I am working very comfortably at the dispensary here. There are three of us dispensers and a quartermaster-sergeant. The work is very similar to what I am accustomed to, but with, of course, a greater proportion of dressings. We get the wounded in here straight from the field dressing-stations by train, and they have to be dealt with at once. There are quite a dozen hospitals in the district, and this seems to me to be one of the best. The buildings are wooden huts, the wards being connected by covered gangways, with the administrative building in the central space. The staff quarters are also wooden huts, quite separate from the hospital. We have two huts to sleep in and another for dining. They are very comfortable considering their temporary nature, and the food is nothing to grumble at."

LIEUTENANT G. S. M. COLBECK-WELCH, Royal Engineers, has been awarded the Military Cross. He had previously been mentioned in despatches by Sir Douglas Haig. He is a director of the Heckmondwike Chemical Co.

ACTING COMPANY-QUARTERMASTER-SERGEANT R. K. GUILER, Army Service Corps, has been promoted second-lieutenant in the Labour Corps. Second-Lieutenant Guiler is a brother of Mr. James Guiler, M.P.S.I., 89 Ormeau Road, Belfast.

PRIVATE T. WRIGHT, of the King's Own Scottish Borderers, who prior to enlistment was an assistant with Boots, Ltd., chemists, Shandwick Place, Edinburgh, has been wounded for the second time. He is a native of Jedburgh.

PIONEER G. L. WOOD, R.E., 21 Milton Road, Cambridge, has been wounded, and is being treated in a hospital at the Front. Before joining up, Mr. Wood was an active member of the Cambridge Pharmaceutical Association and chief assistant to Mr. E. H. Church, Ph.C.

THE LEGION OF HONOUR (Croix d'Officier) has been awarded to Major Horace R. Haslett, Royal Irish Rifles, in recognition of services rendered during the war. Major Haslett is a son of the late Sir James Haslett, M.P., and ex-President of the Chemists' and Druggists' Society of Ireland, and is a director of J. & J. Haslett, Ltd., wholesale druggists, North Street, Belfast. Major Haslett has been twice wounded, once dangerously, and is at present recovering from wounds received last month.

CAPTAIN GEORGE ARTHUR MCMILLAN, Scottish Rifles, attached South Stafford Regiment, has been wounded in the thigh, and is in hospital in France. Captain McMillan is the son of Mr. James M. McMillan, chemist and druggist, Ayr. He joined the Ayrshire Yeomanry in 1912, and was mobilised at the beginning of the war. He obtained his commission in the Scottish Rifles in August 1915, and was attached to the South Stafford Regiment in July of last year, and was promoted captain this spring. In civil life he was associated with his father in business.

Miscellaneous.

THE PHARMACIE CENTRALE, Hankow, China, has been added to the list of firms to whom articles exported to China may be consigned.

CONTRABAND OF WAR.—The "London Gazette" (July 3) contained a Proclamation consolidating, with additions and amendments, the lists of articles to be treated as contraband of war.

ENEMY FIRMS IN CHINA.—The Awards Dispensary and the Talow Dispensary, Shanghai, have been removed from the list of persons and bodies of persons to whom articles to be exported to China may be consigned.

HANDLING BOMBS.—The use of a weak alkaline solution (one teaspoonful of sodium bicarbonate in a quart of water) is recommended for removing from the skin the deleterious substances left on the skin by contact with enemy air-bombs, such as have been employed in the recent air-raids on London.

SOLDIERS' PENSIONS.—It has been brought to the notice of the Ministry of Pensions that a number of pensioners are appealing to the charitable on the ground of insufficient means. The Local War Pensions Committee, whose address is obtainable from the nearest post-office, have ample power for dealing with all deserving cases of this nature from public funds, and such applicants should be referred to the Pensions Committee of the district.

FRANCE'S DAY.—A special appeal for funds was made by the London Committee of the French Red Cross on Saturday, July 14, and an excellent response is expected. In a preliminary list were the following contributions: Nostlé & Anglo-Swiss Condensed Milk Co., Ltd., 1,000*l.*; Ralli Bros., 250*l.*; H. Mayer, Senior, Ltd., 75*l.* 10*s.* 3*d.*; Mitrovich Bros. & Co., 20*l.*; C. M. & C. Woodhouse, 10*l.* 10*s.*; Joseph Nathan & Co., Ltd., 10*l.* 10*s.*; Duncan, Flockhart & Co., 10*l.* 10*s.*; T. & H. Smith, Ltd., 10*l.*

PAPER-SUPPLIES.—New regulations have been issued concerning the distribution of paper, providing for the issue of priority certificates, particulars in regard to which are given in the "Board of Trade Journal" of July 12. The gist of these regulations is that all Government and other work in the national interest takes precedence over that of private individuals and firms, and priority certificates will be issued in order to secure supplies. These certificates do not increase the quantity of paper or paper-making materials which an importer, maker, dealer, or consumer may obtain, but they only determine the order in which, in relation to the supplies of other persons, particular contracts or orders shall be executed.

RHUBARB-LEAVES.—Dr. Harrington Sainsbury, writing to the "Lancet," does not think that poisoning in a recent case of death after eating cooked rhubarb-leaves was due to the soluble oxalate, the quantity being so small. Rhubarb-leaves are used as a vegetable in Dr. Sainsbury's household, and are found to have a laxative action, which is a virtue rather than a vice.

Contracts.

THE following contracts have been placed by Boards of Guardians and other public bodies:

Birkenhead.—Evans Sons Lescher & Webb, Ltd., drugs and sundries.

Bishop's Castle.—Mr. J. E. Gwilliam, chemist and druggist, surgical appliances.

Brighton.—Corbyn, Stacey & Co., Ltd., drugs and druggists' sundries; Perfection Mineral Water Co., Ltd., mineral waters at 1*s.* 9*d.* per doz.

Camberwell.—Middleton Bros., beeswax, 10½*d.* per lb.; brimstone, 4½*d.*; borax, 4½*d.*; Keating's powder, 7*s.* 11*d.* per dozen tins; Hudson's extract of soap, 3½*d.* per lb.; Brooke's monkey brand, 2*l.* 1*s.* per gross; washing-powder ("Nivalbo"), 16*s.* 6*d.* per lb.; spirits of salts, 1½*d.* per lb.; carbolic soap, 45*s.* per cwt. Pryke & Palmer, sanitary paper, 4*s.* 10*d.* per dozen rolls; carbolic powder, 30 per cent., 24*s.* 6*d.* per cwt.; Izal toilet-soap, 2*s.* 9½*d.* per dozen tablets.

Derby.—R. Daniel & Son, drugs and medicines.

Gosport.—Bovril, Ltd., invalid bovril, 4*s.* 3*d.* per lb.; Oxo, Ltd., hospital oxo, 4*s.* per lb.

High Wycombe.—The "Sanitas" Co., Ltd., disinfectants; Holland, Barrett & Housden, cod-liver oil and quinine.

Hull Asylums Committee.—Clark & Co., drugs; Mr. Thos. Hill, aërated waters; and Jeyes' Sanitary Compounds Co., Ltd., disinfecting-fluid—all for six months.

Hull Corporation Health Committee.—Mr. R. B. Sawyer, chemist and druggist, drugs for six months; Sayers, Silcox, Cuzner & Co., surgical dressings for six months.

Lambeth.—A report of the Contracts Committee, presented to the Lambeth Board of Guardians on July 11, stated that "The periods for which the contracts with The British Drug Houses, Ltd., and Maw, Son & Sons, Ltd., for the supply of drugs and druggists' sundries respectively, were extended will expire on July 30, and we are advised by the medical officer of the infirmary that it is desirable that the Guardians should continue the existing arrangements for the present. With regard to druggists' sundries, the contractors now supply at terms identical in all respects with those which obtained in the contract which was entered into previous to the war, but subject, nevertheless, to market fluctuations. The British Drug Houses, Ltd., supply drugs at prices in accordance with their current price-list (such prices being subject to market fluctuations from time to time), less a discount of 20 per cent. We understand that the contractors are agreeable to continuing these arrangements, and we have therefore given authority for the acceptance of the tenders of The British Drug Houses, Ltd., to supply drugs, and Maw, Son & Sons, Ltd., to supply druggists' sundries to the Guardians' establishments for a period of three months, expiring on September 30 next, subject to the conditions stated, and for such acceptances to be notified thereon, and sealed with the Common Seal of the Board." The report was adopted.

Lewes.—Boots, Ltd., for drugs.

Marylebone.—Corbyn, Stacey & Co., Ltd., for drugs, 154*l.* 12*s.* 6*d.*; S. Maw, Son & Sons, druggists' sundries, 133*l.* 11*s.* 7*d.*; Gossage & Sons, Ltd., soap, 145*l.* 2*s.* 6*d.*; Ambora Soap-works, ambora, 27*l.* 10*s.*

Metropolitan Asylums Board.—The British Drug Houses, Ltd., drugs for three months. James Kay & Sons; Wilkie & Soames, Ltd.; Christopher Thomas & Bros., Ltd.; John Knight, Ltd., soap. Bovril, Ltd.; Brand & Co., Ltd.; Mellin's Food, Ltd., meat extracts, infants' foods, etc.

Newport (Salop).—Mr. F. H. Slinn, chemist and druggist, soaps and disinfectants.

North Bierley (Bradford).—Harrison, Parkinson & Co., Sunbridge Road, drugs and medicines for three months.

Oulton (Suffolk).—Mr. F. A. Hanworth, chemist, six months' supply of chemists' goods.

Paddington.—Oxo, Ltd., 50*l.* 12*s.* 6*d.* for oxo.

Portsmouth.—Pink & Sons, mustard, 7*s.* 10*d.* per 9-lb. keg; malt vinegar, 2*s.* per gal. G. T. Cox, arrowroot, 51*s.* per cwt. The "Sanitas" Co., Ltd., carbolic soap (household), 34*s.* per cwt.; soft soap, 40*s.* per cwt.; soap (hard, disinfecting), 1-lb. bars, 44*s.* per cwt. Perkins, Ltd., mineral waters, 4*s.* to 6*s.* per doz. syphons.

Southampton.—W. Bates & Co., drugs and chemicals.

In connection with the risk to children from enemy aircraft, West Ham Education Committee have ordered the following first-aid dressings for each of the sixty-five schools in the borough: Two dozen 2½-in. open-wove bandages; two dozen 3-in. open-wove bandages; 2 lb. absorbent wool; 1 lb. boric lint; 6 yards cyanide gauze; one dozen 18 in. by 3 in. pads for splints; 1 yard batiste for covering parcel.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

The Practice of Dentistry.

The Lord President of the Privy Council has appointed a Departmental Committee to investigate the extent and gravity of the evils connected with the practice of dentistry and dental surgery by persons not qualified under the Dentists Act, and to consider and report upon:

1. The causes of the present inadequate supply of qualified dentists and dental surgeons.
2. The expediency of legislation prohibiting in the United Kingdom the practice of dentistry and dental surgery by unqualified persons; and, in the event of such legislation being deemed expedient, the conditions under which certain classes of unqualified persons at present engaged in the practice of dentistry might be permitted to continue in practice, by the institution of a special roll for the purpose.
3. The practicability, without impairing the existing guarantees for the efficient practice of dentistry, of (*a*) modifying the course of study and examination prescribed for dental qualifications; (*b*) reducing the time occupied; (*c*) diminishing the cost of training dental students.

The Chairman of the Committee is Mr. Francis Acland, M.P., and the members are: Lord Knutsford; Sir Almeric FitzRoy, Clerk of the Council; Sir Arthur Newsholme, Medical Officer of the Local Government Board; Sir George Newman, M.D., Chief Medical Officer of the Board of Education; Mr. Charles Sissmore Tomes, F.R.S.; Mr. William Henry Dolamore, M.R.C.S.; and Mr. George P. Blizard. Mr. F. H. O. Jerram, staff clerk in the Local Government Board, will act as Secretary.

Birmingham.

The sale of Brompton cough-lozenges and suchlike is being held up by reason of the supplies of sugar being erratic and small.

Packets of lavender-flowers are being asked for by philanthropical people, who send them to soldiers for the purpose of warding off vermin.

Owing to the state of the finances of the Worcester Infirmary, the Committee have decided to close more wards. The deficit is nearly 5,000*l*.

There is an enormous demand for girls leaving school in this city. Among those needing them are Alfred Bird & Co., Southall Bros. & Barclay, Ltd., and the inevitable munition-works.

The name of Miss Doris M. H. Alcock, daughter of Mr. F. H. Alcock, Ph.C., appears in the list of successful candidates at the Cambridge University Higher Local examination held recently, gaining Honours in Class III.

Professor J. T. J. Morrison, F.R.C.S., who has been appointed successor to Professor Saundby as representative of the Faculty of Medicine on the Council of the University, is the well-known Birmingham police surgeon.

Captain Chavasse, V.C., belongs to a well-known Sutton Coldfield family. His father (Bishop of Liverpool) and Sir Thomas Chavasse, the eminent Birmingham surgeon, are sons of Dr. Chavasse, who was a well-known medical man of the Royal borough.

Ladies are herb-hunting on cycles in the district. They have a list of medicinal plants supplied to them by a well-known pharmacist, and, with a knowledge of botany, have met with some success. The chief difficulty has been to find a market for relatively small quantities of the plants which are secured.

Liverpool.

Sir Edward Evans is back at the Hanover Street office daily.

Several window accidents owing to heat are noted. In one pharmacy, on the opening of an airtight case, an exhibition vacuum tube exploded.

Business continues, on the whole, to brighten. The restrictions of the use of spirits are hampering the supply of perfumes, some brands being obtainable in small quantities only. Prices inevitably are rising.

Mr. S. Hardy (St. George's Pharmacy, St. John's Lane) states that the earlier closing has curtailed his business in theatrical requisites, but, on the other hand, a new trade has sprung up with munition-workers. Many girls, owing to their increased earnings, buy a shilling article in place of formerly a penny one.

A correspondent signing himself "A Pharmacist" has challenged a statement by the London Letter writer of the "Liverpool Post," to the effect that the continued and prevalent use of saccharin is injurious. From another pharmacist comes a note that saccharin has been officially declared to act injuriously on the kidneys and eyes.

Mr. D. H. Evans (Lodge Lane), Hon. Secretary of the Liverpool Chemists' Association, invited members of the Association to attend, or be represented at, a general conference of retailers on early closing, to be held at the Adelphi Hotel on July 19. The movement for earlier closing, together with a prolonged August Bank holiday, is spreading in the suburbs.

"Vevax" shaving-soap has received a novel testimonial. A customer, who lately tried the soap as a war economy (the local prices for shaving having been advanced 33⅓ per cent. and hair-cutting 50 per cent.) on the advice of a central area pharmacist, called this week and mentioned that his wife found the odour of the bathroom very pleasant owing to "Vevax," and desired a toilet-soap with a corresponding scent for her personal use.

Striking testimony to the wisdom of adopting reasonable hours in a suburban business is borne by a local pharmacist. "When I opened here twenty-five years ago," he says, "I had four near competitors, all of whom opened, as did my predecessor, until 10.30 P.M. each week-day and for four and a half hours on Sundays—namely, 12.30 to 1 P.M. and 6 to 10 P.M. I began with 9 P.M. on week-days and no Sunday opening, to which I adhered until still earlier closing became the rule. To-day I have no near competitor."

The University has appointed an Advisory Board of Chemistry, which is to advise the Faculty of Science as to the training for those who are to carry on chemical industry in this country. The Board consists of Dr. E. F. Armstrong (Crosfield & Sons and Wm. Gossage & Sons), Mr. Roscoe Brunner (Brunner, Mond & Co.), Dr. G. C. Clayton (United Alkali Co.), Mr. G. H. Cox (Salt Union), Mr. John Gray (Lever Bros.), Mr. A. T. Smith (Castner Kellner), together with the following members of the University staff: Professors E. C. C. Baly, W. C. McC. Lewis, W. Ramsden, R. Robinson, and Drs. Alfred Holt, F. W. Kay, and J. Smeath Thomas.

Sheffield.

London has honoured one of our leading commercial chemists by giving Sir Robert Hadfield, F.R.S., the Freedom of the City.

The Baby Week here was a great success. Meetings were attended by some 15,000 mothers, who received good advice from several lecturers.

Mr. John M. Savage, the American Consul in Sheffield, gives the comparison for the six months ending June 30 of chemicals exported from Sheffield to the United States as 14,726*l*. for 1916 and 3,877*l*. for 1917.

The leading attraction in window-displays in every part of the city has been secured by Yardley's soap, the proprietors of which have been fortunate in securing some of the best pharmacies for whole-window shows.

Mr. C. Bennett, chemist and druggist, the late manager of the Sheffield Drug Co., Ltd., has been called to the Colours while giving a hand as *locum tenens* to some of his old friends in Sheffield.

The victory appears to be with the Sunday traders up to the present. After six summonses out of a whole batch had been dealt with, an application was made for a summons against the Lord Mayor and other leading local men. On the request of the Government the local authorities have decided not to proceed with the other cases pending.

Miscellaneous.

EARLY-CLOSING ORDER.—Mr. Edward C. Bowen, Ph.C., 4 Queen's Road, Bayswater, was fined 20*s*. at Marylebone for failing to close his pharmacy at 10.15 P.M. on June 25.

BARRATT COLOUR-PRINTS.—The collection of colour-prints formed by the late Mr. T. J. Barratt, of A. & F. Pears, Ltd., is to be sold by auction within the next few weeks. The series includes many beautiful and rare prints.

CAPTAIN SCHLAGINTWEIT, the notorious former German Consul in Manchester, who was also connected with a well-known firm of chemical-brokers in that city, is reported to have been killed in action during one of the recent severe engagements around Verdun.

GAS-SUPPLY.—The Fuel Research Board is conducting an investigation as to the most suitable composition and quality of gas and the minimum pressure at which it should be generally supplied, having regard to the desirability of economy in the use of coal, the adequate recovery of by-products, and the purposes for which coal is now used.

PHARMACISTS' VOLUNTEER CORPS.—The orders for the week include parade at the Imperial College Union, Prince Consort Road, South Kensington, W., at 10 A.M., on July 22.

Members going to camp will meet at Liverpool Street Station for the 9.10 A.M. train. On July 24, at 8.30 P.M., there will be classes for officers and N.C.O.s, and on July 25 and 26 drill at 3 P.M.

POISON-LICENCES.—Henry S. Tett & Co., Ltd., ironmongers, Faversham, have applied to the Kent County Council for a poison-licence for Mr. E. C. Sharpe, employé, at 61 and 62 High Street, Sittingbourne.—Chorley Town Council has granted a licence for the sale of weed-killer and sheep-dip to Mr. Geo. Cooper.—Berwick-on-Tweed Town Council has renewed similar licences to Messrs. Anderson, of Hide Hill, and Mr. J. T. Robson, of Bridge Street.

ALLEGED THEFT OF BEECHAM'S PILLS.—James Henry Everitt was remanded at the Thames Police Court on July 16 on a charge of stealing nine dozen boxes of Beecham's pills, valued at 5*l.*, which he had offered to Noble's Drug-stores, Ltd., at a suspiciously low price, and this eventually led to his arrest. Everitt offered the pills at 8*s.* per dozen for the 15*d.* boxes, and the 5*s.* ones at 2*s.* 9*d.*

POISONINGS.—The cases reported since last week include the following: At Sheffield, Willes Deakin, a director of James Deakin & Sons, poisoned himself with potassium cyanide.—At St. Marychurch, Cecil J. Varicas was found to have poisoned himself by morphine, the jury returning a verdict of "Death by misadventure."—A Sunningdale girl named Lansbury poisoned herself with a fumigating liquid.

WHOLESALE DRUGGISTS' EMPLOYÉS.—Negotiations between the National Amalgamated Union of Shop-assistants and two London firms of wholesale druggists have reached a further stage. The offers made by the firms in response to a request for a 20-per-cent. increase in war bonus having been rejected by the staff, the matter has been submitted to Sir Geo. Askwith, Chief Industrial Commissioner.

EARLY CLOSING AT PLYMOUTH.—At a meeting of the Plymouth Corporation, the Town Clerk reported that notice of intention to make a closing order for the shops of chemists and drug-sellers had been given as ordered, and that the prescribed period within which objections were to be made had expired. The Town Clerk added that no objections or suggestions had been received by him in pursuance of the notice, and the Corporation thereupon decided to take a poll of the persons interested.

INQUEST.—At the Hammersmith Coroner's Court, an inquiry was held last week into the death of Mrs. Barnes, wife of Dr. Geo. Barnes. She had been in the habit of taking phenalgin powders for headache. Mr. Shortland, who is Dr. Barnes's dispenser, stated that he had made up the powders on Dr. Barnes's instructions, but deceased had also had them dispensed at Blackpool. The medical man who was called in when Mrs. Barnes was found in an unconscious state said that the phenalgin had nothing to do with her death. The jury returned a verdict of "Death from natural causes."

DISPENSER WANTED.—The Local Government Board have written to the Bermondsey Board of Guardians with reference to their request that they would sanction the appointment of a dispenser at their infirmary, stating that they suggest that the Guardians should endeavour to make temporary arrangements for the period of the war, and that they should consider whether arrangements could be made by which Mr. S. E. Goggin, dispenser at the Shad Thames Dispensary, would temporarily carry out all the dispensing for the Union. The Guardians felt that it was impossible for one dispenser to do this, and have decided to again urge the Local Government Board to grant their request.

SALFORD DRUGS.—In his report to the Health Committee of Salford, Mr. G. D. Elsdon, B.Sc., the borough analyst, states that during the year 1916 fifty-two samples of drugs were examined and thirteen were returned as adulterated. This, he adds, must be looked upon as serious, as all the adulterated samples were obtained from shops owned by qualified pharmacists; the public expects, and it would seem to be reasonable, that the goods supplied by qualified men shall be of superior quality and absolutely above suspicion. It is true that some of the samples (*e.g.*, lime-water and fluid magnesia) are liable to deterioration if carelessly stored, but these facts ought to be known to the qualified men, who should take steps to see that such drugs are carefully handled. It is in the handling of such substances that the art of the pharmacist should be evident, and it can only be inferred that great carelessness has been shown. Reference is made to fourteen Insurance prescriptions sampled in connection with the Insurance Committee. Of these six were unsatisfactory. It is added that further work in this direction is contemplated, as it is obviously necessary to keep the standard of drugs supplied to insured persons as high as possible.

Irish News.

Brevities.

An Order in Council (No. 692), dated June 29, has been made which replaces the Regulations made on January 26, 1917, under Section 2 of the Poisons and Pharmacy Act, 1908, dealing with the sale of agricultural poisons. This is a formal matter regulated by the Rules Publication Act, 1893; technically the Regulations made in January have been provisional.

Dr. J. S. Ashe, Ph.C., Merrion Square, Dublin, has been elected a member of the Central Council of the Dublin Citizens' Association.

Sir Wm. Whitla, L.P.S.I., M.D., has been chosen as one of the nominees of the Crown to the Irish Home Rule Convention, which will meet on July 25.

The Newcastle West, co. Limerick, Board of Guardians have decided to give Mr. M. Dore, Ph.C., dispenser to the Board, an increase of 25*l.* per annum in his salary.

An outbreak of fire occurred on July 14 in the temporary structure which has replaced the premises of Hoyte & Son in Sackville Street, Dublin. The damage was slight.

During the recent Sinn Fein riots at Cork the windows of the following drug-establishments were smashed: Cork Chemical and Drug Co.; P. J. Fielding, Ph.C., Patrick Street; and J. A. Burke, Ph.C., Grand Parade.

Mr. A. W. Gray, R.D., has taken over the premises formerly occupied by Mr. Thos. Sheircliffe, 41 Ogle Street, Armagh. Mr. Gray served his apprenticeship with Mr. Wm. Haslett, Belfast, and has been with Mr. D. M. Watson, Dublin, for the past nine years.

The Public Health (Prevention and Treatment of Disease) (Ireland) Bill, which is before the House of Commons, gives power to the Local Government Board for Ireland to declare County Councils as one of the authorities to execute and enforce regulations for combating epidemic diseases.

Mr. J. H. Moffatt, Ph.C., has taken over the premises lately occupied by Mr. Wm. Haslett, Ballynafeigh, Belfast, and intends carrying on there a first-class pharmacy. Mr. Moffatt served his apprenticeship with Mr. S. Smyth, Belfast, and was subsequently with Grattan & Co., Ltd., and Hayes, Conyngham & Robinson, Ltd., Dublin.

The dinner closing-hour scheme is now largely in operation with wholesale houses in Belfast and in many of the retail drug-establishments. Wm. Dobbin & Co., Ltd., wholesale druggists, North Street, Belfast, have intimated that they will begin the practice on July 16 of closing for dinner from 1.15 to 2.30 P.M., except on Saturdays.

A lecture on chemistry in industry was delivered at the Royal College of Science, Dublin, on July 10, by Professor Gilbert T. Morgan, F.R.S. The lecture was illustrated by specimens of cement, glass, and phosphatic manures manufactured from Irish materials. The production of synthetic dyes was demonstrated by an exhibition of colouring-matters made by Levinstein, Ltd., Manchester.

The L.G.B. called the attention of the Sligo Guardians to the fact that they had not been furnished with the analyst's certificate in respect of a consignment of drugs received in January last. The Clerk said samples had been sent to Sir Charles Cameron, but they had not received his analysis. It was decided to make inquiry at the post-office, and to submit second samples of the medicines concerned.

A new Irish industry has been started at Athy in the shape of a factory for the utilisation of scutch-roots, which are graded, washed by machinery, and shipped to America for use in medicine. It takes ten tons of good quality scutch to give one ton of the prepared produce. Prior to the war scutch was obtained from Austria. [Scutch is a name applied in Ireland and some parts of England to *Agropyron repens*.—ED.]

At the last meeting of the Cork Corporation a deputation was received from the Cork branch of the Irish Chemists' Assistants' Association requesting that the early closing of chemists' shops might be brought before the Council again. The Law and Finance Committee recommended by five votes to three that the original decision—viz., "That it is not expedient to make a closing order"—be adhered to. Mr. Maurice O'Connor, solicitor, pleaded the cause of the assistants. It was stated that twenty-one out of twenty-two chemists' shops in Cork are in favour of an early-closing order. After a discussion the matter was referred back for reconsideration to the Committee.

LETTERS addressed to places in that part of Cameroon which is in British occupation are now accepted for transmission at the Imperial rate of 1*d.* an ounce.

Scottish News.

Early Closing.

An Order (No. 398/S. 47) has been made, under the Defence of the Realm Regulations, which deals with the early closing of shops in Scotland. The hours are the same as under the English Order—8 P.M., except Saturday, when it is 9 P.M.—and there is the same saving clause that the Order shall not prevent the sale after the closing hour of "medicine or medical or surgical appliances," so long as the shop is kept open and lighted only for such times as is necessary for serving the customer. The Order is in force until September 30, and applies throughout Scotland.

Chemist's Shop in Cycle Parade.

In a fancy-dress cycle parade held at Leslie, Fife, in aid of Red Cross funds, a special prize for originality was gained by Miss Agnes Morgan, who adopted an original dress suggested by Mrs. Spence, St. Michaels, wife of Mr. Alex. Spence, chemist. The dress consisted of four bath-towels decorated with bath-accessories. On the shoulders were lootahs, around the neck a necklace consisting of miniature soap tablets with an aluminium soap-case in front, at the waist hung a celluloid sponge-basket with sponge therein, and around base of dress were bath-gloves and bath-sponges. On the head was a bandeau of Pears' soap and Vinolia soap wrappers, and Miss Morgan carried in her hand a large bath-brush, and wore bath-sandals. The cycle had on the handle-bars two bath-towels, and was otherwise prettily done up with soap show-cards. The entire get-up was much admired and commented on.

Brevities.

Aberdeen and Hamilton are said to be the two places in Scotland where sugar is most plentiful at present.

The Local Government Board (Scotland) has issued notices to all local authorities requesting their co-operation in the administration of the Venereal Disease Act, 1917.

There is a general movement among Scottish chemists to increase dispensing-charges. The new prices will be 25 per cent. to 33⅓ per cent. above pre-war prices, according to the district. Cash payments are in many cases to be made a little lower than credit sales.

Mr. Peter Harrower, East India merchant, Leabank, Cardross, who died in 1913, left real and personal estate, according to the corrected inventory, amounting to 87,316*l*. Mr. Harrower was a chemist and druggist, and owned a pharmacy in the Cowcaddens district.

Edinburgh.

Edinburgh and the smaller places on the coast have been full of visitors this week, and business in consequence has greatly increased. In the small town of Musselburgh it was reckoned that 6,000 holiday-makers—mostly from the West—had arrived.

Toilet-preparations, especially face-creams, have never sold better than at present. A good-going plea it used to be with the lawyers; but a popular beautifying agent, if judiciously and skilfully advertised, seems the modern layer of the golden eggs.

Pulv. sacchar. alb. is unobtainable locally, and as a result sacch. anisi is being sold cautiously by retailers. Infants' powders, too, are being prepared with less sugar, and the occasional custom of sweetening seidlitz powders is not now so enthusiastically followed.

An inspector of police—carrying a warrant—has been examining chemists' registers of the sales of cocaine and opium. It was done quite tactfully and kindly, trifling omissions, such as a doctor's initials being entered instead of his name in full, being pointed out; but it seems evident that the authorities desire to see the regulations carried out to the letter in future. It is stated that the inspection will take place every two or three weeks.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

PERSONAL.—Mr. B. Walsh, youngest son of Mr. A. Walsh, governing director of Lennon, Ltd., was a passenger on board the Japanese vessel which was recently torpedoed off the English coast. Fortunately he was one of the survivors landed at Plymouth.

EPSOM SALT and sulphate of soda are being manufactured by a Johannesburg firm, and are having a large sale. Both the salts are a good white colour, but the Epsom is not of the needle-crystals variety so much appreciated by chemists. It will be interesting to watch if the firm will be able to compete with the imported articles after the war.

STOCKS IN CAPE TOWN are becoming more and more difficult to obtain (writes our Cape correspondent), and prices are advancing daily. A mail arrived on June 6, and all goods that came with it have to bear a 5-per-cent. increase, in addition to the higher freights and war-risk insurance of 10 per cent. Scott's emulsion and Wright's coal-tar soap are at present unobtainable in a wholesale way at Cape Town, and many other popular lines can only be purchased in retail lots.

"CUTTING" IN CAPE TOWN.—Pharmacists in Cape Town and suburbs are in the throes of a cut-rate war in proprietary articles, which are being advertised largely in the "Cape Times," in many cases below cost, including Pears' soap at 5*d*. (cost 5*s*. 6*d*.), Piver's powder at 3*s*. 3*d*. (cost 42*s*. per dozen), Beecham's at 1*s*. 1*d*., Colgate's cream at 11*d*. per tube (cost 11*s*. 6*d*.), Johnson's Red Cross powder at 7½*d*. per tin (cost 8*s*. 9*d*. per dozen), and so on. The Cape Toilet Requisites Co., Adderley Street, started the campaign by advertising a few chemists' lines at a low figure, but even then there was a margin of profit. An Adderley Street pharmacist immediately became scared, and next day had a huge advertisement in the "Times" with a great number of "cut" lines, some of which are enumerated above. A number of suburban chemists then followed suit, and the senseless game goes merrily on, in spite of the fact that stocks are greatly depleted and cannot be easily replaced.

India and the East.

(From the "C. & D." Correspondents.)

CEYLON SPIRIT-DUTY.—The import-duty on spirits in Ceylon is to be raised from Rs. 9.37 to Rs. 11.45 per proof gal.—the same as the Indian rate.

THE RED CROSS.—An Ordinance has recently been published restricting the use of the Red Cross to societies concerned with the medical treatment of soldiers.

CEYLON DEPARTMENT OF AGRICULTURE.—The Department of Agriculture has begun to issue special leaflets dealing with problems which require attacking. No. 1 is on the manurial value of coconut poonac, No. 2 deals with the black-rot disease of tea, and No. 3 with the fluted scale insect. The Department has also issued a list of the plants and seeds of the Royal Botanic Gardens, Peradeniya, which are supplied at nominal prices.

BRITISH DYES FOR INDIA.—On April 27 the Government of Bengal informed the Committee of the Bengal Chamber of Commerce that synthetic dyes are now being manufactured on a not inconsiderable scale in the United Kingdom, and that it may be therefore possible to relieve to some extent the difficulties which are being experienced in the matter of obtaining supplies. The Committee are to furnish the Bengal Government with an estimate of the quantity of each dye required yearly.

MYSORE SANDALWOOD.—In the course of an article on the Indian sandalwood-industry in "Capital" of April 27, it is stated that in European commerce there are generally three well-marked classes—(1) the East Indian sandalwood, (2) sandalwood of the Pacific group, (3) Australian sandalwood; of these the East Indian sandal ranks superior in all respects—in the quality of the wood, its fragrance, and yield of essential oil. Both the Japanese and West Indian sandals are but little recognised in commerce, and their origin is involved in great obscurity.

THE RÖNTGEN RAYS were studied first as one means whereby we might hope to learn something of the nature of electricity. They are now the surgeon's trusted guide, telling him how to direct his knife and restore his patient to health and strength.—*Sir Richard Glazebrook.*

Legal Reports.

Carbolic-acid Plant.—In the King's Bench Division, Dublin, last week, before the Master of the Rolls, in the case of O'Connor and others *v.* Blair, Campbell & McLean, Ltd., a consent settling the action was made a rule of Court. The plaintiffs were Mr. Roderic P. O'Connor, civil engineer, Mr. Thomas Dillon, Assistant Professor of Chemistry, and the Larkfield Chemical Co., Kimmage Road, Dublin, and the defendants were manufacturers of chemical plant at Woodville Street, Govan, Glasgow. The action was brought to recover damages for alleged breach of contract in connection with the supply of carbolic-acid refining plant (see *C. & D.*, May 12, p. 37). The consent provided that all further proceedings should be stayed on the terms that the defendants should pay to the plaintiffs their costs when taxed and ascertained, not exceeding 160*l.*; that the defendants should, within ten days from the making of the consent a rule of Court, pay to the plaintiff company 1,000*l.*, this sum to be accepted by all the plaintiffs in full satisfaction of all claims by them; that the sum of 160*l.* lodged in court by the plaintiffs on the counterclaim should be paid to them; and that the defendants should be entitled within one month from the date of making the consent a rule of Court to remove at their own risk and expense all plant and machinery supplied by them to the plaintiffs.

Milk-drying Patents.—In the Chancery Division on July 16, Mr. Justice Astbury gave his reserved judgment in the action J. R. Hatmaker *v.* Joseph Nathan & Co., which involved a question of alleged infringement of the plaintiff's patents for drying milk (see *C. & D.*, July 14, p. 36). Mr. Justice Astbury said that the patents of which infringements were alleged had expired since the commencement of the actions. He was told that the plaintiff had paid over 20,000*l.* for the rights of the invention in all countries outside the U.S.A. and Canada. The defendants had been interested in patents for this invention, and had promoted two companies to purchase certain of them. It appeared that the defendants had a factory at Breuil-en-Auge, and the food called "Glaxo" was one of the infringements complained of. After the plaintiff's invention was first published it created great interest among people interested in the production of dried-milk products, and it was not contradicted that a new and useful industry grew up in consequence. The serious issue in the matter turned on the question of validity, and particularly as to the points of whether the specifications were ambiguous, misleading, and without sufficient directions. The defendants had not satisfied him that the invention was anticipated. On the question of the specification being misleading, an invention had to be useful for the purposes indicated, and one had to look (he thought) at the specification as a whole, and he had come to the conclusion on this aspect of the case that the patent prior to expiry was invalid, and the action must be dismissed, with costs. His Lordship added in a subsequent discussion as to costs that he gave a certificate with regard to the objection that the specification was misleading and ambiguous, and also as to the objection of insufficiency of directions.

Insurance Prescribing.—An action has been brought in the Court of Session, Edinburgh, by Dr. Alexander Mitchell, M.B., C.M., Aberdeen, against the Aberdeen Insurance Committee for the payment of 244*l.* deducted from his remuneration as a panel practitioner. Plaintiff states that he has one of the largest panel practices in Aberdeen. In July 1916 he was requested to meet the Panel Committee and furnish explanations regarding his prescribing for 1915. Plaintiff had the prescriptions examined, and found that they referred to only three patients out of a panel of about 4,000, and he at once wrote to the Panel Committee for explanations regarding the three cases. Thereafter the Panel Committee met, and, without hearing plaintiff or giving him an opportunity of being heard, they reported to the Insurance Committee that the cost of the prescriptions furnished by the plaintiff exceeded the 2*s.* rate per insured person by 13.07*d.*, and they were of opinion that an excessive demand upon the Drug Fund had arisen in consequence of orders given by plaintiff, which were extravagant both in character and in quantity. Plaintiff maintains that the whole proceedings of the Panel Committee and Insurance Committee are contrary to the statute and regulations, and that defendants have not only wrongfully retained the 244*l.*, but that in consequence of the proceedings complained of he has been held up to the public as a practitioner who has been guilty of professional fault. Defendants reply that if the calls on the Drug Fund are excessive, the resulting deficiency falls upon the chemists unless it is charged against the medical practitioners responsible for the excess. The Committee allege that plaintiff's rate for prescriptions has been one of the highest in Scotland among panel doctors with a considerable practice; that the information upon which they acted consisted of details showing the number of persons on plaintiff's panel and other particulars; and that no adequate explanation was offered for the cost of the prescriptions exceeding the average for the other doctors in Aberdeen. Defendants pleaded that the Court has no jurisdiction, the only method of review open to the plaintiff being an appeal to the Scottish Insurance Commissioners. Lord Ormidale on July 17 sent the pleadings to the roll for discussion.

Soda Contracts.—In the Lord Mayor's Court on July 11, before the Common Serjeant (Sir F. Bosanquet, K.C.) and a jury, the case of Florey *v.* Elmer G. Taunt & Co. was concluded. The plaintiff, Mr. G. W. H. Florey, chemical-dealer, Great Tower Street, London, E.C., sued Elmer G. Taunt & Co., chemical-dealers, Wormwood Street, E.C., for 60*l.* 12*s.* 6*d.* damages for non-delivery of pure soda crystals. The plaintiff's case was that on December 11, 1916, he gave an order to the defendants for 50 tons of pure soda crystals in 2-cwt. bags at 4*l.* 7*s.* 6*d.* per ton, ex wharf Manchester, delivery December, net cash against delivery order. On December 23 a second order was given for the same quantity. In regard to the first parcel there had been delivered 45 tons in various lots. Complaint had been made in respect of one of those deliveries because of the quality of the soda, and the defendants had accepted back the goods, repaying the money paid for them. After delivery of the 45 tons difficulties arose with regard to the remainder of the soda crystals, and ultimately the plaintiff had to buy 5 tons against the defendants at 6*l.* 10*s.* per ton, the difference in price amounting to 10*l.* 12*s.* 6*d.*, which was claimed as damages for non-delivery. The second parcel of soda crystals had been re-sold, and plaintiff had had to pay to his customer a claim of 18*l.* 15*s.* for non-delivery, which amount, together with the profit that he (plaintiff) would have made, 31*l.* 5*s.*, made up his claim for damages on the second item to exactly 50*l.* For the defence it was claimed that the plaintiff had had delivery made to him of 50 tons of pure soda crystals in satisfaction of the first contract, as a settlement had been made regarding the 5-ton lot which was rejected. In respect to the second order it was accepted upon the understanding that defendants were able to obtain the soda crystals. They were not able to do so, and consequently could not supply the plaintiff. The jury found a verdict for the plaintiff for the amount claimed against the defendants and Mr. G. Taunt, who had been added as a defendant in the course of the proceedings. A stay of execution was granted on terms.—Before Assistant Judge Jackson and a jury, a claim was made by Allen Harding & Co., Ltd., chemical-dealers, Leadenhall Street, London, E.C., against the Surrey Chemical Co., Nye's Wharf, Peckham, for 13*l.* damages for alleged breach of contract in the non-delivery of 10 tons of mixed soda under a contract. Only one instalment of 2 tons was delivered, and plaintiffs had to buy at an increased price, the difference being claimed in that action. The plaintiffs' manager, Mr. E. L. Fry, gave evidence in support of the case, and said that the refusal of the defendants to give delivery orders for the soda under contract arose through the defendants thinking they had a grievance against plaintiffs over a soda-ash contract. For the defence it was contended that it was a condition of the contract that defendants should deliver the soda if possible. Owing to shortage of labour and inadequate supply of material caused by the war it was not possible to deliver 2 tons weekly. Certain offers were made which plaintiffs refused. The jury found a verdict for the plaintiffs for the amount claimed, and judgment was entered accordingly.

Bankruptcy Report.

Re Harry Percy Jones, formerly of 25 Liverpool Road, Stoke, Chemist and Druggist.—This debtor applied for his discharge from bankruptcy at the Stoke County Court on July 11. The bankruptcy occurred in 1915 (see *C. & D.*, March 27, 1915, p. 55, and April 3, 1915, p. 39). An offer was made of 50*l.*, to be paid within three months, which offer was considered reasonable by the Official Receiver. His Honour Judge Ruegg granted the application for discharge.

COCAINE is largely replacing arsenic in the daily Press as a poison sensation. A Yorkshire paper refers to pudding-powder adulterated with cocaine!

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

AMERICAN FOUNTAIN CO., LTD. (P.C.).—Capital 2,100*l.* R.O., 26 Charing Cross Road, London, W.C. 2.

MORAYS, LTD. (P.C.).—Capital 2,000*l.* Takes power, among other things, to carry on business as manufacturing chemists. R.O., 16 Bridge Street, Aberdeen.

PERFECT HAIR COLOURING CO., LTD. (P.C.).—Capital 1,000*l.* Objects: Manufacturers of and dealers in hair dyes and lotions, etc. R.O., 26 Cannon Street, Manchester.

F. THOMPSON & CO., LTD. (P.C.).—Capital 2,000*l.* Objects: To take over the business of a drysalter and chemical-manufacturer carried on as F. Thompson & Co., Little Bridge Street, Strangeways.

ACME RUBBER GOODS, LTD. (P.C.).—Capital 2,000*l.* Objects: To carry on business as manufacturers of and dealers in indiarubber goods, etc. Solicitors: Gem & Co., 2 Bennett's Hill, Birmingham.

MOND NICKEL CO., LTD.—The directors recommend a dividend of 20 per cent. for the year ended April 30, 1917, less interim dividend already paid.

INTERNATIONAL SPONGE IMPORTERS, LTD., have declared a dividend at the rate of 4 per cent. per annum upon the ordinary shares in respect of the half-year ended June 30.

COLOMBO APOTHECARIES' CO., LTD.—The directors have declared a dividend of 10 per cent. and a bonus of 2½ per cent. for the year ending March 31, 1917, which will absorb R.50,000, leaving a balance of R.77,298 to be carried forward.

Trade Notes.

BURGESS' LION PILLS AND OINTMENT.—The new prices are given in this week's Coloured Supplement.

POTATO-SPRAYING.—Tomlinson & Hayward, Ltd., Lincoln, supply Burgundy mixture and all necessary materials for potato-spraying.

HONEY.—Evans Sons Lescher & Webb, Ltd., Liverpool and London, invite application for samples and prices of honey, which is now in large demand for use in place of sugar.

SACCHARIN TABLETS.—Jules Denoual & Co., Carlton Works, Asylum Road, London, S.E. 15, advertise saccharin tablets in their advertisement in the Coloured Supplement, the prices given being cash with order.

LIGATURES.—The system of packing ligatures adopted by Johnson & Johnson was shown in the advertisement in the last issue of John Timpson & Co., Ltd, 104 Golden Lane, London, E.C., the sole agents for this country.

HENNA-SHAMPOOS made by the Empire Perfumery Co. (Cuxson, Gerrard & Co., Ltd.), Oldbury, are stated to be the only shampoos made with a potash soap-base. Particulars are given in the company's advertisement in this issue.

GOODALL, BACKHOUSE & CO., Leeds, and 54 Southwark Street, London, S.E., have issued this week their quarterly price-list, which gives the present prices of the firm's specialities, druggists' sundries, and proprietary articles. It is one of the most complete and useful lists of its kind.

EUCRYL SHAMPOO-POWDERS have reached "the white heat of perfection," states the advertisement of Eucryl, Ltd., 61-63 Lant Street, Southwark, London, S.E. 1. A bonus offer is made of this product, which can be associated in the pharmacy with the Eucryl tooth-powder and tooth-paste.

KEATING'S POWDER.—Major G. Grey Turner, in a series of articles in the "British Medical Journal," dealing with medical and surgical matters in Mesopotamia, refers to the discomfort of fleas, adding:

> But of all the minor horrors, fleas are the most amenable to treatment, and Keating's powder, properly used, is a specific. It should be dusted on the socks and in between the folds of the putties, when it will furnish almost absolute protection.

Business Changes.

BUTLERS (LONDON), LTD., 124 and 127 Minories, London, E. 1, are the London agents for B. Owen Jones, Ltd., Johannesburg, Transvaal.

THE ANGLO-FRENCH PERFUMERY CO., 69 Hatton Garden, London, E.C., announce that, Mr. Leon Mirener having relinquished his partnership in the business, the sole owner is now Mr. Geo. Alexander, who will carry on the concern under the same style as heretofore

Military Tribunals' Decisions.

BOURNE.—Mr. Cyril H. M. Baxter, chemist and druggist, was given conditional exemption until January 15, 1918. The Chairman of the Tribunal (Sir Charles Welby, Bart.) added a rider that it was the opinion of the Tribunal that his business was necessary for the civil population.

COLCHESTER.—Mr. W. H. Belton, in the employ of Mr. S. Head, Ph.C., High Street, and Mr. F. R. Smith, in the employ of Mrs. M. E. Smith, St. Botolph's Street, were allowed to remain till their classes were called up. Lieutenant Payne said dispensers are required for the Army.

COLWYN BAY.—The appeal of Mr. Lambert Hunt, dispenser, Conway Road, Colwyn Bay, for further exemption was dismissed, applicant not to be called up for a month.

GREENSTREET (KENT).—Mr. Robert Gilbert Eacott, chemist and druggist, Greenstreet, Sittingbourne, was granted conditional exemption, subject to his joining the Special Constabulary.

MAIDSTONE.—Mr. J. S. Cheetham, chemist and druggist, in the employ of Mr. F. J. Oliver, chemist and druggist, Maidstone, was granted a further three months' exemption, with a view to substitution.

SHEFFIELD.—Exemption to October 31 has been granted to Mr. F. T. Bennett, wholesale druggist.

SOUTHBOROUGH.—The appeal of Mr. G. E. Green, chemist and druggist, on behalf of Mr. Horace Miles, chemist and druggist, Southborough, Tunbridge Wells, was dismissed, one month's exemption (final) being granted.

SOUTHWARK.—Mr. L. C. Smith, of Smith & Tyers, licensed rectifiers and compounders of spirits, Blackfriars Road, was granted six months' exemption.

UPTON-ON-SEVERN.—Mr. John Gibbs, chemist and druggist, appealed for his only remaining son, Francis Victor. He was given exemption to August 15, to be final.

WOKING.—Mr. John Wearing, chemist and druggist, Chobham Road, Woking, stated that the six months' exemption granted to him expired in January. He had voluntarily gone before the Medical Board, and as his card was marked "Rejected," he made no application to the Tribunal for exemption. The military authorities had now sent him a calling-up notice, and he had again been medically examined, with the result that he had been placed in category C 3. The Clerk said the point was whether the Tribunal would consider this a new application under the third Act, as they had no power to revive a lapsed certificate. The Tribunal held that the applicant came under the last Military Act, and granted him permission to lodge an application.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," June 27, 1917.)

"BIRDCAGE," under picture of same, for chemicals (2 and 3), goods (47), perfumery, etc. (48), and goods (50); "BELLOWS," over picture of same, for chemicals (3), goods (4), food-substances (42), goods (47), perfumery, etc. (48), and goods (50). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 377,918/19/21/22/23, 377,924/25/26/27/28/29.

"PIONEER"; for first-aid outfits (3). By W. B. Phillips and W. E. Stratton, 19 Great Queen Street, W.C. 2. 377,904. (Associated.)

"MENQUONE"; for photographic chemicals (1). By E. Itterson-Pronk and J. Menzies, 29 Ingate Place, Battersea, S.W. 8. 377,603.

"LION," under picture of same; for glycerin (4). By Hodgson & Simpson, Ltd., 17 Highfield Street, Liverpool. 377,383.

"LUC"; for all goods (8 and 11). By Laboratory Utilities Co., Ltd., 17 Sackville Street, W. 1. 378,185/132. (Associated.)

"THE BRITISH GLASS WOOL COMPANY LIMITED," with picture of Britannia; for glass-wool manufactured in Great Britain (15). By The British Glass Wool Co., Ltd., 134A Holloway Road, London, N. 7. 377,718.

Square bearing oval with three-faced device; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, N.E. 373,732.

"C'EST LE JOUR," "JOURS PASSES," "SOUS D'AUTRES CIEUX," "JOURNEE DE PRINTEMPS," "FANTOME D'ORIENT," "PRINTEMPS QUI COMMENCE," "IL PLEUT DES PETALES DE FLEURS," "JE NE SAIS POURQUOI," "LE PAPILLON ET LA FLEUR," "LES CLOCHES DU SOIR," "SOUL," "DANS LA FORET ENSOLEILLEE," "APRES L'HIVER," "QUAND LE CŒUR EST JEUNE"; for perfumery, etc. (48). By The Standard Tablet Co., Ltd., Hove. 377,954/956/984/985/986, 378,005/007/008/010/011/012/015/016/053.

"DEZALE"; for toilet-preparations (48). By H. Brandon, 317 High Holborn, W.C. 1. 377,714.

"FLAPPER"; under picture of girl with basket; for perfumery, etc. (48). By C. H. Parsons & Brother, Ltd., Ashby-de-la-Zouch. 377,963. (Associated.)

"CUTISAN": for perfumery, etc. (48). By Marguerite L. Grogan, "The Nook," Acacia Road, Hampton-on-Thames. 378,113.

Births.

BROWN.—At 45 Howitt Road, London, N.W., on July 8, the wife of George E. Brown, F.I.C., of a daughter.

MILES.—At Ganton House, Swindon, on July 11, the wife of Vivian Miles, of a son.

NEATHERCOAT.—At 19 Beaumont Street, Devonshire Place, London, W., on July 13, the wife of E. T. Neathercoat, J.P., Ph.C., Weybridge, of a son.

STEELE.—At 273 Fulham Road, London, S.W., on July 13, the wife of Will. H. R. Steele, M.P.S., of a daughter.

TOOKEY.—At Southampton, on June 30, the wife of Lieutenant Tookey, son of Mr. E. J. Tookey, pharmacist, Olton, Birmingham, of twin daughters.

Marriages.

FORD—TEMPEST.—At St. Mark's Church, Regent's Park, London, N.W., on July 17, by the Rev. H. D. Barrett, Vicar, William Crossley Ford, chemist, Kelvin House, Camden Road, N.W., to Elizabeth, younger daughter of the late Alderman Tempest, J.P., of Tamworth.

HOLMES—GUEST.—At St. Alban's Church, Stockport, on July 16, by the Rev. Dudley E. Sturt, B.A., Nathaniel Wheatcroft Holmes, pharmacist, Darwen, to Nellie Guest, younger daughter of Mr. and Mrs. T. Guest, Hazel Grove, Stockport.

JENKIN—SAVAGE.—At All Saints' Church, Camborne, on July 12, Baldwin H. Jenkin, M.P.S., Camborne, to Ethel, youngest daughter of Mr. Andrew Savage, Caergwele, Wrexham.

MORRELL—HILMAN.—At St. John's, Westminster, on July 12, Dr. G. F. Morrell, of Pierson, Morrell & Co., manufacturing chemists, New Barnet, formerly on the staff of the School of Pharmacy, to Florence, younger daughter of Mr. and Mrs. R. H. Hilman, The Glen, Norbury Avenue, Streatham, S.W.

Deaths.

BROWNING.—On July 7, Mr. Bertram Francis Browning, of "Rutleigh," Furze Lane, Purley, aged fifty-two. The late Mr. Browning was a partner in the firm of James Houghton & Sons, 27 Bartholomew Close, London, E.C., and was well known to many in wholesale drug and oil circles in the City.

GARDNER.—At 191 Eccles New Road, Salford, Mr. Edward Gardner, chemist and druggist, aged sixty-five.

JONES.—At 4 Queen's Road, Bayswater, London, W., on July 17, Mr. William Cadwaladr Jones, L.D.S., chemist and druggist. Mr. Jones passed the Modified examination in 1869, and took the L.D.S. of the Royal College of Surgeons, Ireland, in 1881.

RANSON.—At 177 Newland Avenue, Hull, on July 14, suddenly, Mr. William Sowerby Ranson, aged sixty-nine. Mr. Ranson originally joined one of his old schoolmates, Mr. W. B. Mason, the managing director of Taylor's Drug Stores, Ltd., and after being inspector in the Leeds district he was appointed to Hull, where for a number of years he was the North-Eastern district inspector. He retired, but in 1906 started business at 177 Newland Avenue. Mr. Ranson is survived by his widow and a family of four sons and two daughters.

Died on Service.

BLYTH.—Killed in action, Second-Lieutenant R. P. Blyth, Argyll and Sutherland Highlanders, second son of Mr. John Blyth, chemist and druggist, Charlotte Street, Leith.

CLIFFORD.—Private A. Clifford, who was killed in action on June 24, was formerly in the employ of Williams & Co., druggists, Broad Street, Birmingham. He had only been at the Front two months, and joined the Colours last September.

HIRST.—Private Harold Hirst, West Yorkshire Regiment, has been killed in action. Before he enlisted he was employed at the Killgerm Works, Cleckheaton.

KIDMAN.—Corporal C. R. Kidman, Machine Gun Corps, reported killed in action after being missing since May 4 last, enlisted whilst with Edes Everett, Ltd., chemists and druggists, of St. Botolph's Street, Colchester.

LETHBRIDGE.—Private C. H. Lethbridge, Loyal North Lancashire Regiment, who has died whilst on service, was formerly employed by the Anchor Chemical Co., Ltd., Clayton Lane, Clayton, Manchester.

LEWTHWAITE.—Gunner W. S. Lewthwaite, Royal Field Artillery, who has fallen in action at the age of twenty-four, was formerly assistant in the business of his brother, Mr. John Lester Lewthwaite, chemist, Port St. Mary (I. of M.), and later with Gelling Bros., Douglas.

SANDERS.—Second-Lieutenant J. H. Sanders, Scottish Rifles, was reported killed on June 23. He studied at the Glasgow School of Pharmacy, passed the Minor in Edinburgh, and was a few years ago in business in Greenock. He then emigrated to Canada, but returned on the outbreak of war and joined the Army.

SOENEN.—Pharmacien René Soenen, son of M. Georges Soenen, a director of the Pharmacie Centrale at Lyons, has been killed in action.

Personalities.

DR. J. A. GUNN has been appointed Professor of Pharmacology in the University of Oxford.

MR. JOSEPH INGALL, pharmacist, High Street, Ashford, Kent, has been reappointed a Governor of the Grammar School.

THE MINISTER OF PENSIONS has appointed Colonel Sir John Collie, R.A.M.C., to be Director of Neurasthenic Institutions.

MR. A. JERROLD-NATHAN, C.C., chairman of Barclay & Sons, Ltd., has been elected Chairman of the London Court of Arbitration, in succession to Mr. Stanley Machin.

MR. F. FARMER (Fredk. Farmer & Co., College Lane, High Street, Homerton, N.E.) was presented with a pipe and cigarette-case and an address for services rendered during the air raid of July 7. Mr. Farmer is a member of the Ambulance Section, 2nd/9th Battalion County of London (Volunteer) Regiment.

SIR HENRY TRUEMAN WOOD, who has been Secretary of the Royal Society of Arts since 1879, is retiring in September. He was previously editor of the Society's journal and Assistant-Secretary. An annual lecture is to be instituted to commemorate Sir Henry Wood's long connection with the Society. Mr. G. K. Menzies, who has been Assistant Secretary since 1908, is to succeed him as Secretary.

MR. RICHARD BREMRIDGE, who in June 1913 retired from the position of Secretary and Registrar of the Pharmaceutical Society, has done a particularly good piece of work on behalf of the Benevolent Fund. The decennial benefit dinner which was due this year could not be held for obvious reasons, but Mr. Bremridge was anxious that the special contributions which that function produces should not be lost to the Benevolent Fund. He therefore offered to make calls on all the business houses which made contributions in 1907 and on other firms, with the result that, as announced recently, he has received donations amounting to 837*l.* 18*s.* Mr. Bremridge is a septuagenarian, but the energy he has displayed over this collection gives the certain hope that he will assist at further decennial festivals on behalf of a Fund in which he has always taken the greatest interest.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

77/62. "Healsupp" catarrh ease.
79/8. Lycresol.
79/7. "Armoise": makers.
79/12. Widdowson's ear-plug.
83/4. Price's violet-powder.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Angostura bitters, 72/38
"Antitoxine," 68/8
Arrheol capsules, 17/45 and 74/18
Chemists' overalls, 56/38
Chiver's carpet-soap, 74/18
Chloro-phenol soap, 69/10
Claire's grease-paints, 60/15
Clark's glycola, 74/18
"Eastbourne" invalid-chair, 44/22
"Eau de Brighton," 44/12
Guy's tonic, 74/18
"Hennaglinta" shampoo-powders, 25/44
Morse's Indian-root pills, 74/18
Mothersill's seasick-remedy, 74/18
Norton's camomile pills, 74/18
Root cutting and pulping machinery, 68/74
Sharratt's fumigators, 72/34
"Shavallo" cream, 17/57
Urillac, 74/18

Observations and Reflections.

By Xrayser II.

The Solidarity of the Wholesale and Retail Drug-trade was the subject of most practical interest in Mr. Hill's address to the British Pharmaceutical Conference, though it was by no means the only one of importance. Solidarity implies a community or perfect coincidence of interests, sympathies, aspirations, and responsibilities, and in all these the two branches of the trade are ultimately at one. The fact has not always been recognised (it is not long since the Liverpool Chemists' Association debated the propriety of admitting wholesalers to its membership), but to question it is to show oneself short-sighted and purblind. Mr. Hill mentioned several ways in which an increased solidarity would make for our advantage, and if he put our own interest first it was because our interest is really that of the public too. We should be a greater "national asset" just because we should be a "stronger fighting force"; to render "an adequate and sufficient" service we must have adequate and sufficient recognition. Mr. Hill seemed to think the Society somewhat neglectful of the interests of the wholesale trade, but we must remember that it was formed expressly to protect the retailer, and the wholesaler is much better able to protect himself. This does not mean that he ought not to play a larger part in the Society, and it would be no less to our interest than to his if he did. Perhaps in no other trade are the relations between wholesale and retail so intimate as in ours, or the line dividing them so thin and so often broken through. Many of the greatest names, not only in pharmacy but in the history of the Society, belong to both. Among the names of those on the first Founders' Committee we find an Allen, a Hanbury, a Barron, a Herring, a Bell, a Davy, a Butler, a Horner, a Keating, a Lescher, a Morson, a Savory, a Squire, not to mention others, all of which now suggest wholesale rather than retail trade to most of us.

The Alterations in Processes adopted in the 1914 B.P. have not, owing to the war, received the attention which they otherwise would have had; but no doubt laboratory workers have noted many points that will be brought forward in due course. One of these is referred to in Mr. Oliver Chick's paper on extractum cinchonæ liquidum, published in the last issue. Every chemist recalls the difficulty of separating the emulsion when performing the 1898 estimation, but it comes as a shock to find that the improved process leads to an error in the result of no less than 8 per cent. It is fortunate that Mr. Chick has made this discovery, otherwise some public analyst with an inquiring turn of mind might have some day dropped upon a perfectly innocent pharmacist for sending out liquid extract of cinchona much under strength.

The Decomposition of Quinine Bisulphate at certain temperatures is a point of great importance to physicians who have been in the habit of prescribing the bisulphate and to manufacturers of tablets and ampoules. The facts brought out by Messrs. Howard and Chick show that the salt behaves in quite an eccentric manner, for no one would conclude, on abstract grounds, that a slightly moist powder would decompose more rapidly than the same powder very moist or quite dry. So far as ampoules are concerned, I believe that the preference is for those containing the acid hydrochloride, on account of its greater solubility; and it is fortunate to have the assurance that this salt is not liable to decompose. The modern treatment of malaria is to inject from 15 to 20 gr. daily of acid hydrochloride deeply into the muscle. Were harmful quinotoxin present, these doses might soon produce a prejudicial effect.

Your Series of Articles on the chemist's titles yields abundant matter for thought, though none for immediate action on our part. We can afford to wait for the ripening of public opinion with regard to that particular "specialisation of industry" which we rightly desire, and we must do all we can in the way of propaganda and open discussion to hasten it. Every pharmacy ought to be a centre of influence in this direction, and not the least effective influence is the diligent, courteous, and efficient discharge of our duty as National Health Insurance dispensers. But though this is all we can do at present, your tentative forecast of what we might be willing to concede in return for the realisation of what we desire is timely, and should be helpful. It is well to make our position, and even our needs, quite clear both to friends and (if we have any) to foes. We want assistants and we want more dispensing, but we are not prepared to take the former on terms that would diminish our present share of dispensing unless we receive along with them a right to the work they already do. In short, we want assistants, not rivals, and we shall not accept the latter on any other terms than those of the Pharmacy Acts unless the field of our activity is sufficiently enlarged to make room for them. If legislation is required to give us an assistant's qualification, your suggestion of a comprehensive scheme that would settle the whole question ought to be welcomed.

The Question of Cocaine as a drug in the Cocaine Regulation has been raised in the Leeds prosecution. I anticipated this point six months ago with regard to the meaning of the word drug in the latter half of paragraph (11) of the amended Cocaine Regulation of December 5, 1916, in declaring that the drug referred to both there and in the former half of the paragraph (which in the original Regulation was the whole of it) was undoubtedly cocaine. I did not, indeed, venture to guess what view a lawyer might take of the matter, but grammatically only the one interpretation is, I said, possible. The Magistrate in the Leeds case seems to have thought otherwise at first, but there is absolutely no doubt about it, and eventually grammar prevailed—which is more than it sometimes does in a court of law. Fortunately the new Regulation which came into force on June 28 will prevent the repetition of such prosecutions in the case of Insurance prescriptions.

The Dundee Dispensing Tariff is open to several objections. The trouble involved in reckoning so minutely the cost of ingredients is considerable; the result in the case of most prescriptions will vary a good deal from time to time; and the variation in the cost of different prescriptions of the same bulk will also vary greatly. The trouble is unnecessary, since the professional spirit, like "high heaven" in Wordsworth's sonnet, "rejects the lore Of nicely-calculated less or more," and the variations, which do not matter in Insurance dispensing, will be likely to lead to friction with individual customers. The old plan of fixed charges according to the size of the mixture and the number of doses—allowance being made for exceptional cases—is in my opinion much the better plan.

Ol. Santal. Aug. is so well known for its superiority over all others in the market as to need no "boosting," but I read with surprise Mr. Chatterton's letter speaking of the distillation of the oil in Mysore as a new departure, having been familiar with this imported oil as a very inferior rival to the English more than forty years ago. I read in "Pharmacographia" that it was largely manufactured at that date in the Mysore district, "where fuel for the stills is abundant," as much as 10,348 lb. having been sent to Bombay in the year 1872-73, of which 4,500 lb. was re-exported by sea. Are we to understand that German competition has killed this native industry, or does Mr. Chatterton refer to some new effort to produce an oil better able to compete with ours? In any case there seems no reason why English distillers should resent local efforts to produce a valuable commodity, though the form in which Mr. Chatterton presents his facts is open to objection.

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An announcement of particular interest to you appears in this issue on page 8.

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Editorial Articles.

Spirit Questions.

As is well known, before the war the regulations of the Customs and Excise Department did not allow of the manufacture in this country of absolute alcohol, which in consequence came almost entirely from Germany. On the outbreak of war, in consequence of the demand, rectifiers turned their attention to the question, and were able to obtain modifications of the regulations governing the production of absolute alcohol from spirits. As all the absolute alcohol came into the country no difficulty had been experienced in regard to storage in bond, or as to the use of duty-paid spirit. The duty on absolute alcohol is on the highest scale owing to the concentration of the spirit. No provision existed for warehousing absolute alcohol made in this country, with the result that rectifiers required much more capital in the business of making absolute alcohol than in making other kinds of spirits. This difficulty was overcome by Section 8 of the Finance Act, 1915, which modified Section 95 of the Spirits Act, 1880, so that the rectifiers could warehouse for home consumption spirits of wine of a strength of 74° over proof or upwards, which they had rectified from spirits on which duty had been paid. The section gave the Commissioners of Customs and Excise power to make regulations to this effect. These have now been issued under the date June 22, with the title Spirits of Wine (Warehousing) Regulations, 1917. First, "absolute alcohol" is defined as spirits of wine of a strength of 74° over proof or upwards, and the "authorised vessel" as "any cask, any drum provided with a tap-hole in the head, or any metal vessel of regular shape having a plug which is capable of being secured under seal." Then follow the subjoined conditions under which absolute alcohol may be warehoused by a distiller or rectifier:

(1) Subject to the provisions hereinafter contained with respect to absolute alcohol contained in bottles packed in cases, absolute alcohol must be warehoused in an authorised vessel.

(2) The quantity of absolute alcohol warehoused at any one time must be not less than nine bulk gallons.

(3) The quantity of absolute alcohol contained in any one authorised vessel must be not less than four and a-half bulk gallons.

(4) Subject to the special approval of the Commissioners of Customs and Excise and subject as is herein provided,

a distiller may bottle absolute alcohol in an approved compartment of his spirit store or warehouse and pack the bottles into cases and may warehouse the bottles so packed.

(5) A rectifier may instead of warehousing absolute alcohol in an authorised vessel warehouse it in bottles packed in cases.

(6) Any bottles to be packed in a case either by a distiller or a rectifier must be of uniform size and of a capacity of not less than an imperial quart, and the aggregate quantity of absolute alcohol contained in the bottles packed in any one case must be not less than two bulk gallons.

(7) Any cases containing absolute alcohol in bottles intended to be warehoused under the foregoing provisions of these Regulations must be secured by the distiller or rectifier, as the case may be, with a tape or wire, and must be sealed with a revenue seal as soon as the packing is completed.

(8) Where any absolute alcohol intended to be warehoused is contained in any authorised vessel other than a cask or drum, the contents of the vessel must be ascertained by actual measurement in the presence of the officer of Customs and Excise and the plug of the vessel must be secured under revenue seal as soon as an account of the contents of the vessel has been taken by the officer.

Any vessel so sealed must be warehoused forthwith and stored in the warehouse apart from vessels containing spirits of any other description.

(9) The provisions of the Spirits Act, 1880, relating to the warehousing of spirits by a distiller shall in their application to absolute alcohol have effect subject to the modifications contained in these Regulations, and any reference in those provisions to a cask shall be deemed to include a reference to an authorised vessel and to a case packed with bottles.

(10) The provisions of sub-sections (5), (6), (9), (10), (11), and (12) of section 95 of the Spirits Act, 1880 (other than the provisions in sub-section (5) requiring spirits to be warehoused in casks either full or on ullage of one gallon or two gallons, and requiring the capacity of each cask to be not less than nine gallons) shall apply to any spirits of wine being absolute alcohol warehoused under the provisions of sub-section (1) of section 8 of the Finance Act, 1915, for home consumption, as they apply to spirits of wine warehoused under section 95 of the Spirits Act, 1880, for exportation or for shipment as stores.

This regularises the position and enables rectifiers to store absolute alcohol under conditions reasonably simple.

The other matter we have to refer to is the restriction of deliveries of spirits for home consumption, about which inquiries continue to reach us. The Commissioners of Customs and Excise issued notices and a memorandum which regulate the practice in this matter. The memorandum is issued to rectifiers, and waives the restrictions as to the strength of immature spirits, "in order to facilitate the manufacture of medicines and non-potable articles (*e.g.*, essences and perfumes)." One of the notices is to persons authorised to receive immature spirit, which states that "owing to the difficulty experienced under present conditions by persons authorised to receive immature spirits in obtaining the necessary supplies of such spirits, the Commissioners of Customs and Excise will, as a special indulgence during the continuance of the war, allow the delivery to such persons of plain British spirits which have been distilled at or over 50 degrees overproof or foreign unsweetened unenumerated spirits, brandy, and rum of not less strength than 50 degrees overproof instead of 60 degrees overproof as required by Regulation 1 (1) of the Statutory Rules and Orders, 1915, No. 746." This was referred to in the *C. & D.*, June 16 and 23. The other notice is to manufacturing chemists and manufacturers of perfumes, and states that an authority will not be required from the Advisory Committee provided that an immature-spirit requisition bearing on the face of it permission for their delivery, granted by the surveyor in whose district the spirits are to be used, is produced to the proper officer at the ship's side, warehouse, or distillery.

The practical effect of the recent regulations by the Ministry of Munitions limiting the uses of grain spirit to the manufacture of medicinal preparations has been to increase very much the price of the limited quantities of spirit which can be obtained for perfumery. Hence in the price-lists of wholesale druggists the prices of all non-medicinal preparations which involve the use of spirit have been raised, the prices being proportionately higher than for medicinal spirituous preparations.

Six Months' Foreign Trade.

THE Board of Trade Returns for June show a decline in both imports and exports by 859,538*l.* and 3,622,900*l.* respectively, when compared with the figures for June 1916, but a comparison with the preceding month of May shows that the imports declined by over half a million sterling, while the exports of British produce rose by nearly 250,000*l.*, which is satisfactory from a financial point of view. The following table shows the value of imports and exports for June, and for the six months ended June, compared with the corresponding periods of 1916:

	June 1917 £	£
Imports...	86,068,342	− 859,338
Exports	43,654,663	−3,622,900
Re-exports	6,428,081	−2,444,613
	Six months ended June 1917. £	£
Imports...	500,399,458	+26,248,108
Exports...	251,147,544	+ 9,339,663
Re-exports	46,246,323	− 7,874,778

The June import figures record an increase of eight millions in purchases of foodstuffs, a decline of 1,600,000*l.* in raw materials, and one of 7.3 millions in manufactured goods. Almost the biggest decrease was one of 1,002,831*l.* in imports of chemicals and the like, which were valued at 1,916,451*l.* The features of British exports in June comprise a welcome decline of 1,475,100*l.* in foodstuffs, an increase of 581,000*l.* in raw materials, and a decrease of 2,478,000*l.* in manufactured goods, our exports in this category being valued at 34,504,000*l.*, of which 1,920,000*l.* was for chemicals and allied produce. This amount is 580,500*l.* less than in June 1916, but 103,000*l.* more than in June 1915, and, in view of the circumstances under which business is conducted, must be considered satisfactory. Glancing at the six months' trading, we purchased 241 millions' worth of foodstuffs (32.6 millions more), 181,366,000*l.* of raw material (16,889,000*l.* more), and 75,500,000*l.* of manufactured goods (24,000,000*l.* less). Chemical imports for the six months were:

1915 £	1916 £	1917 £
8,629,726	15,621,017	11,662,485

It will be seen the decline in chemicals was almost four millions sterling for the six months. Boron compounds, saltpetre, sulphur, and soda compounds suffered the largest decreases among chemicals, and the restriction on the imports of painters' colours is reflected by a drop to 359,644 cwt., against 657,374 cwt. in 1916. On the export side, the half-year's trading shows that we shipped over 9¼ millions' worth of foodstuffs (5.4 millions less), 34 millions of raw materials (3.3 millions more), and of British manufactured goods 197,902,000*l.* (almost eleven millions more), which is very satisfactory. Our chemical exports were:

1915 £	1916 £	1917 £
11,204,559	13,264,087	11,360,029

The decline in this group is 1,904,000*l.* compared with 1916, but compared with 1915 there is an increase of 155,470*l.* Drugs and medicines exported during 1917 were valued at 1,643,600*l.*, or about 350,000*l.* less, but they are still 275,000*l.* better than they were two years ago. Practically all heavy chemicals during this period show less activity, the least affected scheduled items being soda compounds, which were shipped in reduced quantities but increased values. Altogether, the chemical returns denote quieter oversea trading, but little easing in values.

Ropiness in Bread.

IN the test for ropiness in bread which was given in this column last week a few sentences regarding the preparation of the test-tubes were omitted. Into each of the sterilised tubes is placed a finger of bread 3 in. by ½ in. by ½ in., cut from the centre of the same two-day-old loaf—each piece weighs about 5 grams. Moisten each

piece with 5 c.c. of recently boiled distilled water, then plug all the tubes with cotton-wool and sterilise by immersion in boiling water for one hour on three successive days. We are obliged to several correspondents who have called our attention to the omission.

The Price of Aerated Waters.

A Paragraph has appeared in the London papers regarding an increase of 3*d.* a dozen in the wholesale price of mineral waters. From inquiries we have made we find that this does not emanate from the Mineral Water Trade Association, which has not arrived at a decision on the matter. A temporary advance in prices is, however, not unlikely, having regard to the capital required to pay table-water duty promptly each month, and the increased cost of all materials, labour, and cartage.

The Elusive Balance-sheet.

The Local Associations Executive Committee, under the pressure of public opinion, has circulated the income and expenditure account to those Pharmaceutical Committees who contribute the money which pays not only for the cost of the Checking Bureau, but the expenses of the Executive Committee. It will be remembered that at the June meeting of the Pharmaceutical Council the Local Associations Executive Committee reported that "further publication of the financial statement is unnecessary," and it is to the credit of the Committee that it has not adopted an obstinate attitude in sticking to a resolution arrived at through a mistaken view of its responsibilities. After all, the "balance-sheet" is a comparatively harmless document, and, in spite of the "explanatory notes" which accompany it, is chiefly remarkable for the things left unexplained. We have been puzzled to know what items it was that the Committee was afraid of bringing into the daylight. We think it must have been the amount spent on rent, although this is probably defensible, owing to the necessity of finding house-room for the large staff which, according to the amount spent on salaries, must have been employed during 1916. The members of the Pharmaceutical Society who were fearful that the finances of the Society were being encroached upon by the cost of administering the pharmaceutical service of the National Insurance Act will be glad to know that panel chemists are paying up to the hilt; but whether the Pharmaceutical Committees who contribute to the Central Checking Bureau will be as pleased is another matter.

Progressive Pharmacy Club.

There has been founded in London an organisation under the name of the Progressive Pharmacy Club, which has for its objects "the union of progressive pharmacists, the promotion of reforms, and stimulation of progress in pharmacy." To attain these objects a club-room is being opened in the West Central district as a centre where pharmacists can meet for business, social, and political purposes. It is more than twenty years since a social club for chemists was tried in London, but the failure of the previous effort has not discouraged the promoters of the new movement from trying again. The times have changed, and there is now more sociability amongst chemists. Added to that, the promoters of the club seem to be endowed with a tremendous lot of energy, which they are ready to devote to what they conceive to be the good of pharmacy. At the time of writing some of the details of the constitution and rules are not finally settled, but we may be able to give further particulars later on. One novelty in connection with the club will be the publication of a series of pamphlets on problems affecting pharmacy. The first of a series of twelve deals with "Tariff Revision for 1918," and puts forward two schemes for dispensing-fees which have at least the merit of simplicity.

Nitrates from the Air.—The United States Government are spending 800,000*l.* on plant for the production of nitrates from the air.

Major W. A. Chapple asks in the "British Medical Journal" if it is possible that the use of drinking-water sterilised by means of calcium hypochlorite is the cause of trench nephritis.

Pharmaceutical Society of Ireland.

Council-meeting.

The monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on July 10. Mr. James Tate, President of the Society, presided. The following members of the Council were also present: Messrs. James Michie (Vice-President), W. F. Wells, Victor E. Hanna, G. D. Beggs (Hon. Treasurer), A. Owen Wells, Sir William J. Baxter, D.L., J.P., and Dr. A. J. Barnes.

New Member of Council.

The President welcomed Mr. Hanna, a new member of Council, who had been unanimously co-opted in the room of the late Mr. Batt. Mr. Hanna came to them with a reputation for energy and ability in other spheres of work. They had not the slightest doubt that the unanimity of the Council in co-opting him would be generally endorsed, and they trusted that his energy would find further scope for development in the Council. There is always room for new blood there, and he (the President) trusted that Mr. Hanna would make his mark there as he had done in other spheres of work.

Mr. Hanna, who was received with applause, thanked the President for his kind words in reference to him on his first appearance at the Council. Most of them knew the interest he had in pharmacy. He was only too glad to be one of a number responsible for the carrying-on of the work in Ireland; and he would do all he could, by his presence there and otherwise, to further the objects of the Council in every way in his power. (Applause.)

Letters.

The Registrar (Mr. A. T. Ferrall) then read a letter of thanks from Mrs. Peter MacEwan and family for the message of sympathy sent by the Council; also a letter from Mr. S. W. Woolley thanking the Council for congratulations on his appointment as Editor of The Chemist and Druggist.

Changes of Address.

The following notified changes of address:

Mr. D. Gray, Ph.C., to Dunmanway, co. Cork; Mr. G. W. Hawthorne, Ph.C., to 285 Springfield Road, Belfast; Mr. C. E. Hill, Ph.C., to The Medical Hall, Midleton, co. Cork; Mr. A. Kincaid, Ph.C., to the Military Hospital, Windhuk, South-West Africa; Mr. H. Knight, Ph.C., to The Square, Gort, co. Galway; Mr. Edward Mackessy, Ph.C., to The Central Pharmacy, Kanturk, co. Cork; Mr. J. D. O'Connell, Ph.C., to 43 Bank Place, Mallow, co. Cork; Mr. T. J. Orr, Ph.C., to The Medical Hall, Main Street, Aughnacloy, co. Tyrone; Mr. J. A. S. Anderson, R.D., to High Street, Killyleagh, co. Down; Mr. W. R. H. Orr, R.D., to Orr's Drug-stores, 165 Ormeau Road, Belfast.

Dispensing in South-West Africa.

The Registrar read the following letter from Mr. Alexander Kincaid, Ph.C., formerly of Dublin, and now a Sergeant S.A.M.R. (Medical Staff) at the Military Hospital, Windhuk, South-West Africa:

"Being on active service, I beg to advise you of change of address. I have been dispensing to military hospital, Windhuk (capital of what was formerly known as German West Africa), since last March. I daresay you will remember me as assistant in Mr. W. F. Wells's pharmacy, and later as branch manager for Hayes, Conyngham & Robinson, Ltd.

This is the principal dispensary in the Protectorate, and is neatly fitted up. Most of the bottles are labelled in German, but one picks up names of drugs and chemicals almost immediately. The German Pharmacopœia and Squire's 'Companion' stand side by side, but we only use the former when referring to German preparations already in stock.

There is an up-to-date *x*-ray and electro-therapeutic plant here which cost 2,800*l.*; can put on high-frequency for ultra-violet rays. Then there is a powerful magnet with conical aseptic point for removing bullets, pieces of shrapnel, etc., but these things are not of so much interest to pharmacy. The routine here is the usual one—making up *x*-ray solutions, compounding stock mixtures, dispensing for sick parades, also to do analysis and microscopic examination of urine in laboratory. I still have Professor Kelly's notes on urine-analysis, and find them very serviceable. I sometimes have to do surgical dressings, syringe ears, paint throats, etc.

No one in these times can complain of the pay a dispenser gets here; but it looks so inconsistent that a chemist only ranks as sergeant while a dentist ranks as captain. Moreover so-called 'Army dispensers,' without any qualifications, rank as sergeants just the same. Personally I have no grievance and am quite happy to do what little I can. Still, it is my firm conviction that since the doctor and dentist rank as captains to start, surely the pharmaceutical chemist who joins the Army to serve in his professional capacity ought in fair play to rank as lieutenant or at least warrant officer."

Appointment of Examiner.

On the motion of Mr. Beggs, seconded by the Vice-President, Mr. John McBirney, V.S., M.P.S.I., was re-elected an Examiner to conduct the Pharmaceutical and General Chemistry division of the Pharmaceutical Licence examination.

Elections.

The following were elected as members:

Mr. Ion A. Clarke, Ph.C., Main Street, Portrush, co. Antrim; Mr. J. B. Faichney, Ph.C., The Medical Hall, Graigue, co. Kilkenny; Mr. R. H. Kerr, PhC., 8 Mount Street, Ballymena, co. Antrim; Mr. Thomas McGettigan, Ph.C., 14 Market Street, Strabane; Mr. Thomas A. Meban, Ph.C., Dunard, Broughshane, co. Antrim; Mr. H. C. Meyrick, Ph.C., 10 Stuart Street, Aberdare, South Wales; Mr. Frank Loughman, Ph.C., The Medical Hall, Main Street, Ballinrobe, co. Mayo.

Mr. John Carney, R.D., Ardee, co. Louth, was elected as an Associate Druggist.

Reports of Committees.

Reports from the following Committees were considered: The Law Committee, the Certificates Committee, the Declarations Committee, the House Committee, and the School Committee.

Nominations.

The following were nominated for membership:

Mr. Philip Brady, Ph.C., Oldcastle, co. Meath; Mr. H. P. Crossin, Ph.C., 8 Bridge End, Belfast; Mr. P. J. Orr, Ph.C., Aughnacloy, co. Tyrone.

Mr. E. D. Moran, R.D., Clifden, co. Galway, was nominated as an Associate Druggist.

Examination Results.

The following are the results of examinations held this month:

Preliminary Examination.—D. J. Douglas O'Reardon, Tralee, passed with honours. The following also passed: Mary J. Shannon, Dublin; Catherine Eva Hartigan, Kilmallock; Anthoney F. Roche, Tramore; Kathleen M. Healey, Rathgar; Louis Elliman, Dublin; Cecilia C. Levin, Dublin; Emma Greene, Moate; Arthur Pitt, York; Mary J. Rice, Fermoy; W. E. Milton Thomson, Cork; Catherine M. Harrington, Skibbereen; Sophie Hosford, Ballineen; Eliza A. Maguire, Newtownbutler; Nora B. Lee, Richhill; Ellen B. Young, Rathgar; Noel H. Brandt, Dublin; David Jackson, Cork. Twenty candidates were rejected.

Registered Druggist Examination.—The following passed: Maxwell Given, Londonderry; John Highfield, Limerick; Thomas McAllister, Omagh; Joseph Yeates Thornton, Rathvilly; Mary Walker, Belfast. Eight candidates were rejected.

Pharmaceutical Licence Examination.—The following passed with honours: Michael Joseph Cogan, Queenstown; Frank Teevan Timoney, Dublin; William Frederick Whaley, Enniskillen; John Joseph Roche, Tramore; Walter Cecil Tate, Belfast. The following also passed: Patrick Joseph Walsh, Tralee; Chancellor Gibson, Belfast; Henry Theodore Smyth, Londonderry; John Irwin Pollock, Monaghan; Frank Strahan, Dublin; Patrick Joseph Mangan, Cork; Michael Farrell, Leighlinbridge; William Robert Stinson, Dungannon. Seventeen candidates were rejected.

Pharmaceutical Assistant Examination.—The following passed: E. A. Evanson Ashe, Dublin; Samuel Henry Forrest, Cookstown; James P. Daly, Cork. Two candidates were rejected.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Pharmacists and the Army.

Our Parliamentary correspondent learns that so far no interview has been arranged with Lord Derby in regard to the position of pharmacists in the Army as reported upon at the recent meeting of the Pharmaceutical Society.

Early-closing Order.

The Home Secretary announces that, having regard to the darkened streets, restrictions on the sale of certain commodities, and other war conditions, it is impossible to form a precise estimate of the effect of the Early-closing Order on small shops. It appears that the Order has not injuriously affected the majority of small shopkeepers, and the apprehensions have been largely dispelled by actual experience.

The Manufacture of Iodine.

Mr. Cathcart Wason on July 16 asked the Secretary for Scotland if he will have inquiry made as to the shipment of kelp for the manufacture of iodine from the North Isles and Orkney.

The Parliamentary Secretary to the Shipping Controller, who replied, said the attention of his Department has been drawn to this matter, and special steps are being taken to make tonnage available for the purpose.

Supplies of Arseno-benzol.

Mr. King on Tuesday asked the President of the Local Government Board how many persons have been placed on the list of approved medical practitioners to whom arseno-benzol (salvarsan and its substitutes), approved by the Local Government Board, may be supplied free of cost; whether proper care is taken that only experienced practitioners of good reputation are placed on the list; and whether female as well as male practitioners are eligible for this privilege.

Mr. Hayes Fisher replied that he has no complete information as to the number of medical practitioners in the country who are entitled to be supplied free of cost with arseno-benzol preparations which have been approved by the Local Government Board as substitutes for salvarsan, but he is informed that the number in London is at present seventy-one. The circular-letter of the Department of August 29, 1916, sets out the conditions on which these preparations should be supplied. The answer to the last part of the question is in the affirmative.

Excess-profits Tax.

A new clause to the Finance Bill was moved in the House on July 16 by Sir J. Harmood Banner, prescribing the method of valuing stocks in hand for the purpose of excess-profits tax. Mr. Bonar Law opposed the clause, and said that if such a method were adopted it would mean a loss of revenue of anything up to 100 millions, and it would mean also that the manufacturers, while nominally paying 80 per cent., would really have to pay less than 50 per cent. excess-profits tax. That was an impossible situation. The demand that they should take at pre-war prices the average amount of stock held by manufacturers at the outbreak of war, he was advised, would mean a loss of something like fifty millions. All that manufacturers or merchants had a right to ask was that the Government method of calculation during the war should not make a nominal profit when there was no real profit. He would put that right. He thought it probable that the amount of stocks would be extremely small, and he believed a year was long enough to enable manufacturers to turn over all their stocks, but he was willing to go further and say that if stocks were not all cleared out at the end of the year, let them be valued at the price they reached at the end of the year. He believed that would meet the case. He did not think it likely that prices would fall much below the present level for some time; in fact, there was a probability of their being higher. He had examined the accounts of a number of firms, and he found they were really making larger profits than in any previous time. After further discussion, Mr. Bonar Law agreed to extend the period of realisation of stocks to two years The amendment was then withdrawn.

Table-water Duties.

On the Report stage of the Finance Bill on July 16, Mr. W. S. Glyn-Jones moved a new clause having for its object the repeal of Section 4 of the Finance (New Duties) Act, 1916, which imposes duties on table-waters. He referred to the sympathetic reception which the Financial Secretary to the Treasury gave to a trade deputation in 1916, which, however, has not led to any definite movement to remove the tax. Mr. Glyn-Jones argued that the duty is excessive, as both the raw material and the finished article are heavily taxed, and in consequence the cost to the consumer has become prohibitive. There have been decreases in sales of from 40 to 60 per cent., the reason being that the bulk of the revenue is collected on drinks sold at a very cheap rate and consumed by the industrial population, and particularly by children. The tax was expected to yield 2,000,000*l.*, but only 1,200,000*l.* was obtained, and this year only 1,400,000*l.* is being budgeted for. One effect of the taxation had been to encourage the sale of other articles for making beverages which are not taxed. The Army Canteen Committee, for example, recommended the Army canteens to dissolve 1 lb. of lemonade-crystals in 6 gals. of water to make lemonade to sell at ½*d.* per glass. The public is also doing the same thing, with the result that the legitimate trade in beverages is converted into a demand for untaxable articles. Many firms have actually been ruined. Table-water drinks, such as lemonade and ginger-beer, are paying a duty of 4*d.* a gal. against 2½*d.* a gal. for low-gravity beer. Mr. Bonar Law appealed to Mr. Glyn-Jones not to press the clause, and on the understanding that the matter will be considered next year the clause was withdrawn.

Association Affairs.

Chemists' Defence Association.—Following the meeting of the P.A.T.A. (see *C. & D.*, July 14, p. 47), the annual meeting of the C.D.A. was held at the Holborn Restaurant, London, on July 12, Mr. S. N. Pickard (Chairman of Directors) presiding. The annual report showed a very satisfactory position, the membership numbering 4,999. In the discussion a number of questions were asked, and the value of the Association was emphasised. The following Directors were unanimously elected to serve for the ensuing twelve months: Messrs. J. G. Atkinson, Upper Norwood; R. Feaver Clarke, Gravesend; Herbert W. Colley, Grimsby; W. L. Currie, Glasgow; John Keall, Wandsworth; G. J. Knight, Edgware Road; S. N. Pickard, Ossett; and P. F. Rowsell, Exeter. Messrs. West and Drake were re-appointed auditors. A vote of thanks to the Directors for their services was unanimously passed.

Essex.—The County Association Committee met on July 12, when regret was expressed that the Pharmaceutical Council had not moved as a statutory body on the copper-sulphate question. A resolution was carried urging the Council of the Pharmaceutical Society to push forward the matter of obtaining commissions for pharmacists in the Army as one of the leading questions of the moment. The President gave a *résumé* of his evidence before the Organisation Committee of the Pharmaceutical Council, and, with the Secretary, was thanked for his services there.

London.—The Executive Committee of the London County Pharmaceutical Association met at 17 Bloomsbury Square on July 17. The Secretary was requested to write to the District Associations and to the Secretary of the Early-closing Association, urging the continuance of the eight-o'clock closing order. Messrs. C. A. Noble, C. T. Allen, and J. Humphrey replace on the Committee Messrs. Procter, Wilkinson, and Barratt, resigned. The officers appointed for the year were: *President*, Mr. A. R. Melhuish; *Vice-President*, Mr. G. W. Hatfield; *Hon. Secretary*, Mr. G. A. Tocher. Mr. Jenkin was thanked for his services in the chair during the past year. After a long discussion, it was decided to continue the present levy of 1*s.* per member on the District Associations to meet the expenses of the Executive. The report of the Election Sub-Committee mentioned that the Metropolitan and Home Counties Organisation Committee no longer exists. The annual meeting is to be held on October 25.

Middlesex.—The County Association met on July 11 at the Holborn Restaurant, when the following officers were elected for the ensuing year: *President*, Mr. Herbert Skinner; *Vice-President*, Mr. H. E. Clement; *Secretary*, Mr. Hugo Wolff. It was reported that the Home Counties organisation had been voluntarily wound up, and the various active members had taken steps to establish a Central Pharmacy Club, where all matters relating to pharmacy might be considered and propaganda pushed forward. It was also to act as a central information bureau, and the idea met with general acceptance.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—The Insurance Committee have decided to apply for the exemption from military service for a further period of the following chemists: Messrs. T. Haslam, W. H. Lightbown, J. Yates, W. Dean, J. E. Isherwood, H. Y. McCarthy, B. Nightingale, and C. Haydock. For the month of April the Bureau certified the Blackburn prescriptions to number 11,139, and the Committee have paid in respect thereof 208*l.* 16*s.* 6*d.*, or 75 per cent. of the estimated cost.

Derby.—Statistics supplied to the Derby Borough Insurance Committee by the Pricing Bureau show that in the first three months of the year 32,566 prescriptions were dispensed at an average total cost of 6.80*d.*, of which 3.98*d.* represented the average ingredient-price and 2.82*d.* the average dispensing-fee. The average total cost per insured person was 6.35*d.* At the request of the Bureau, panel chemists have been instructed that in all cases where poisons are dispensed, and it is not found necessary to supply a fresh poison-bottle owing to the patient returning a bottle, or for other reasons, the scripts should be marked "Bottle not supplied."

Essex.—The Essex Pharmaceutical Committee met on July 12, when the Insurance dispensing of sugar and glycerin was discussed, and Messrs. Matthews and Kirkpatrick were elected to meet representatives of the Panel Committee to consider the matter. A rota for service after 8 P.M. is suggested for the Leytonstone, East Ham, and Walthamstow areas, to begin on September 1, subject to the approval of the Insurance Committee. Mr. J. H. Matthews was re-elected President, Mr. T. England Vice-President, and Mr. C. Goode Secretary.

Kesteven.—At the last meeting of the Insurance Committee, a report was received regarding the exemption of panel chemists from military service, and it was resolved that to enable the Committee to fulfil its legal obligations towards insured persons, it is essential that certain qualified chemists should be retained on the panel, continued exemption being pressed for should occasion arise.

London.—The London Pharmaceutical Committee met at Bank Chambers, High Holborn, W.C., on July 10, Mr. A. R. Melhuish in the chair. Messrs. Wilkinson and Breese have resigned, and Messrs. C. A. Noble and J. Humphrey have been appointed to fill the vacancies. The officers for the year are: Chairman, Mr. G. W. Hatfield; Vice-Chairman, Mr. G. B. Barnard; Secretary, Mr. G. A. Tocher. Messrs. Hatfield and Barnard were also appointed members of the Finance Sub-Committee. The representatives on the Pharmaceutical Service Sub-Committee were re-elected. The Insurance Committee intimated that a notice will shortly be issued to practitioners on the panel, for exhibition in their surgeries, requesting insured patients to present their prescriptions to the chemist as soon as possible after receiving medical attendance. The report of the Central Checking Bureau for the months of March and April was received and adopted. The statistics showed that the accuracy of the pricing was well maintained, the margin of error being 0.07 per cent. for March and 0.03 per cent. for April. A vote of thanks was accorded to Mr. H. R. Procter and Mr. W. Wells for examining the accounts on behalf of panel chemists. The Secretary reported that the total number of prescriptions for the first quarter of 1917 was 1,202,915, value 27,821*l.* 4*s.* 10*d.*, and the average cost per prescription 5.55*d.*

Middlesex.—At the meeting of the Pharmaceutical Committee on July 11, it was found that no wish had been expressed for an election, and the members decided to continue in office for the ensuing year. The officers elected were: Chairman, Mr. Herbert Skinner; Vice-Chairman, Mr. H. E. Clement; Secretary, Mr. Hugo Wolff. The Pharmaceutical Service Sub-Committee comprises Messrs. Skinner, Clement, and Wolff, and the Joint Services Sub-Committee Messrs. Skinner and Clement. The report of the checking supervisor was given and adopted.

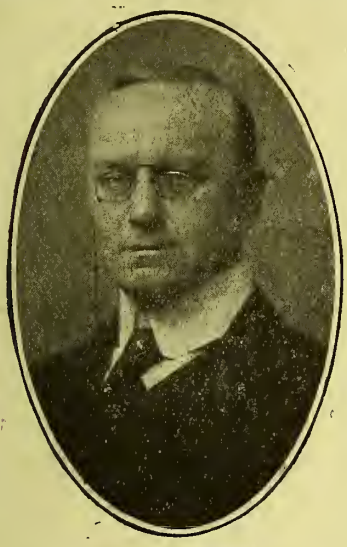
Preston.—The Insurance Committee met on July 11, Mr. W. L. Holland in the chair. Mr. Wilson called attention to the prescription statistics. In 1913 166,108 prescriptions were dispensed at an average cost of 9½*d.*; in 1916 there were 122,410 scripts, averaging 5¼*d.* each. In the discussion which followed the Chairman said that at the earlier period Preston's cost of prescriptions was the highest in the country. Since then doctors had studied the art of economical prescribing. He was not prepared to say the efficacy of the medicines had not deteriorated, but it might be that cheaper drugs had been used without any loss of efficiency. Under the old scale, too, the least charge for any drug used in a prescription was a halfpenny, even if only two drops were used, but in the new scale it might work out as low as 0.02*d.* The time might come when it would be necessary to submit some of the lowest-priced prescriptions to an investigation to determine whether prescribing was adequately and efficiently performed. At present there was no evidence to support the view that it was not. A discussion took place on the right of panel doctors to prescribe proprietary medicines, and eventually it was decided to refer to the Medical Benefit Sub-Committee the whole question of uniformity in prescribing.

Note.

A COMMITTEE OF INQUIRY, under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, took place at the Council-chamber, Yelverton Road, Bournemouth, on July 17, to investigate representations which have been made to the Insurance Commissioners by the Bournemouth Insurance Committee and by the Bournemouth Panel and Local Medical Committee that the continuance of Dr. Richard Neville Hart, of Exeter Lodge, Exeter Road, Bournemouth, upon the panel of medical practitioners is prejudicial to the efficiency of the medical service of the insured. The result will be made known in due course.

Society of Chemical Industry.

THE ANNUAL MEETING of the Society of Chemical Industry was held in the University Buildings, Edmund Street, Birmingham, on July 18. The President (Dr. Charles Carpenter) was in the chair, and a welcome was given to the members by the Lord Mayor, Alderman A. D. Brooks. The President, after thanking the Lord Mayor for his welcome, gave his presidential address. He claimed that chemistry and mechanics form the basis of modern industry, and that the future of the Empire is closely bound up with progress in applied science, particularly chemical science. The progress of the chemical industry requires the inspiration of the chemist in all and every direction; but he urged that the greatest advantage should be taken of the engineer's particular gifts to bring about its achievement, once he was made to understand the conditions to be aimed at. Dealing next with the importance of science education, he said our educational system needs alteration at its foundation. In his opinion, a boy is old enough to learn science when he is old enough to learn history and geography. At the age of sixteen he should commence work either at the desk or in the factory, with compulsory attendance at continuation schools. After two or three years he would, if showing himself to possess the necessary ability, be fit for entrance to the university, to follow a further course of study along paths adapted to his temperament and qualities. The nation could not be expected to appreciate science at its true value unless that appreciation is inculcated as thoroughly as patriotism. The importance of the chemical industries in the scheme of national defence and national progress is at last becoming understood, and must be taken into account in the refashioning of our educational system. Another essential change is in our knowledge of the raw-material resources of the Empire. It should be a State matter to map out all our mineral resources that they might be placed at the disposal of industry by and under the control of the State.



DR. CHAS. CARPENTER.

The President having been thanked for his address, the following reports were submitted:

REPORT OF COUNCIL.

The report of the Council stated that the number of members is now 4,393, as compared with 4,059 last year. The losses from death have been 154 members, these including two past Presidents—Mr. David Howard and Sir Wm. Ramsay—and six who have laid down their lives for their country. It was mentioned that Mr. D. B. Dott has been elected Chairman of the Edinburgh Section, and Dr. C. A. Keane of the London Section. The annual subscription is to be raised to 30*s.* from January 1, 1918, if approved by the meeting and confirmed by a special general meeting. The Council has suggested to the Board of Trade that the annual fees for patents should be suspended during the war, and that the duration of British patents be extended for the same period. It has been decided to publish a separate part of the "Journal" under the title of "Review," which will deal with articles of general and industrial interest. This part will be edited by Dr. E. H. Tripp. Dr. Rudolph Messel, F.R.S., has been appointed by the Council to serve on the governing body of the Imperial College of Science and Technology for a further term of four years. Mr. Thos. Tyrer and Mr. W. F. Reid continue to represent the Society on the Executive and General Board of the National Physical Laboratory. Steps are being taken to form a Bristol and South Wales Section of the Society, while a Canadian-Pacific Section and India Section are also mooted.

ANNUAL ACCOUNTS.

These were submitted on behalf of the Treasurer (Mr. Thomas Tyrer). The income and expenditure account for the year ending December 31, 1916, showed that the total income during 1916 was 7,856*l.* 13*s.* 1*d.*, made up of entrance-fees, 308*l.* 14*s.*; life composition-fees, 53*l.* 2*s.* 6*d.*; annual subscriptions, 4,845*l.*; "Journal" advertisements and sales, 2,001*l.* 5*s.*; decennial index, 10*s.*; dividends and interest on investments, 648*l.* 1*s.* 7*d.* The income exceeded the expenditure by 891*l.* 6*s.* 9*d.*, the chief items of expenditure being: "Journal," 4,439*l.* 6*s.* 4*d.*; sectional expenses, 620*l.* 3*s.* 9*d.*; research grant, 66*l.* 13*s.* 4*d.*; annual meeting expenses 163*l.* 3*s.*; working-expenses, 1,160*l.* 19*s.* 11*d.* The balance-sheet shows that the Society's investments at cost are 22,698*l.* 18*s.* 5*d.* (market value, 16,821*l.* 16*s.* 3*d.*). There is a bank overdraft of 214*l.* 6*s.* 3*d.*

ELECTION OF OFFICERS.

The officers were then appointed, Professor Henry Louis being unanimously elected President for the ensuing year. Dr. Carpenter was elected a Vice-President, and Mr. John Gray, Mr. A. R. Ling, Professor R. F. Ruttan, and Mr. J. T. Wood were elected to fill four other vacancies. Messrs. A. G. Bloxam, W. J. Rees, Edwin Thompson, and Professor Jas. Walker, F.R.S., were elected to vacancies on the Council.

Photo. [*Elliot & Fry.*

PROFESSOR HENRY LOUIS, M.A., D.Sc., A.R.S.M., F.I.C., the new President, is professor of mining and William Cochrane lecturer on metallurgy, Armstrong College, Newcastle-on Tyne. He was born in London in 1855, and educated at the City of London School, where he obtained several scholarships and awards, the most important being one of the Royal Exhibitions tenable at the Royal School of Mines. His career at the last-named School was a brilliant one, and was followed by an engagement in the laboratory of Dr. J. Percy, where he was engaged in researches on the metallurgy of silver, and an appointment as chemist to the Steel Company of Canada, Nova Scotia. Subsequent engagements took him to Ecuador, Colombia, the Gold Coast, the Transvaal, California, the Malay Peninsula, Siam, Borneo, and Spain. In 1895 he was elected to the Chair of Mining he now occupies. He is an excellent linguist, and is author of many technical works, as well as a frequent contributor to the Transactions of several learned Societies.

In the afternoon a session of Congress was held, four papers being read. That on

CHEMICAL PORCELAIN,

by Mr. Henry Walkins, is of pharmaceutical interest. It referred to the uses to which such porcelain is put, and the properties it is required to possess. The chief properties required are resistance to very sudden changes of temperature and insolubility of the glaze in chemical reagents. The materials and methods of manufacture were described, and also the tests to which English-made porcelain is subjected. In spite of numerous difficulties which have been experienced, home manufacturers are now able to supply all the needs of this country. The author had hopes that something superior to the German ware would be produced shortly. One point mentioned was that Continental porcelain is by no means perfect, a large proportion of the chemical vessels breaking down under ordinary tests.

MOSQUITO PLAGUE.—To prevent a repetition of last year's mosquito plague in the Wimbledon district of London, the edges of the lake at Wimbledon Park and the ponds on the common have been sprayed with petroleum to destroy the larvæ.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, July 19, 5.30 p.m.

BUSINESS in chemicals and drugs has again been quiet and of an uneventful character, price-alterations having been few. In a debate on the excess-profits tax, Mr. Bonar Law expressed the opinion that "prices are likely to remain high for some considerable time after the war," and there is little doubt that view is correct in regard to all kinds of produce. Among chemicals, potash and ammon. bromide are dearer, following on an advance in the United States. Salicylates and aspirin remain firm; vanillin shows a further advance. Acetanilide, hexamine, and calcium lactate are easier; saccharin is selling freely to come forward. In drugs, gentian, chamomiles, juniper-berries, and turmeric are held for higher prices; calumba is still very scarce, and ergot is firm. Buchu of all kinds is firm, and spot stocks much reduced. Among essential oils, clove has further advanced; cassia and star-anise are rather firmer. American peppermint is still very quiet, in spite of which values are again on a higher level. Lemon is flat.

Higher	Firmer	Easier
Ammon. bromide	Cassia oil	Acetanilide
Clove oil	Chamomiles	Calcium lactate
Dill-seed	Gentian	Coriander-seed
Glucose (solid)	Juniper-berries	Hexamine
Potash bromide	Peppermint oil (Amer.)	
Vanillin	Turmeric	

The drug-auctions will be held next Thursday, July 26.

ACETANILIDE is in easier tendency at from 2*s.* 10*d.* to 3*s.* per lb. net as to quantity.

ACETIC ACID is quiet, with 80-per-cent. chemically pure offering in casks at 150*l.* and technical at 140*l.* per ton.

AMIDOL is quoted at from 26*s.* 6*d.* to 27*s.* per lb. as to holder.

ANISE OIL (STAR) is firm, with sellers of "Red Ship" brand at 3*s.* 6*d.* to 3*s.* 7*d.* per lb. on the spot, and at 3*s.* 6*d.* c.i.f. for August-September shipment.

ASPIRIN continues firm at from 14*s.* 3*d.* to 14*s.* 6*d.* per lb. net for B.P. quality.

BETANAPHTHOL.—Resublimed is offered at 9*s.* per lb. net on spot.

BROMIDES.—Following on an advance in the United States the prices of potassium and ammonium on the spot have also been advanced, but quotations are irregular. One seller now quotes potassium crystals at from 7*s.* 9*d.* to 8*s.* 3*d.* and granular at from 6*s.* 9*d.* to 7*s.* 3*d.* per lb. net as to quantity; ammonium at from 3*s.* 7*d.* to 4*s.* 1*d.*, and sodium at from 2*s.* 6*d.* to 2*s.* 10*d.* per lb. net as to quantity. In other quarters rather less than 6*s.* 9*d.* is quoted for potash crystals and 6*s.* 6*d.* for granular; ammon. is about 3*s.* 10*d.* and sodium unchanged at 2*s.* 8*d.* per lb. net.

BUCHU.—The total London stock in importers' hands of all descriptions is now reduced to only 12 bales. The market for all kinds is very firm.

CALCIUM LACTATE is easier at from 10*s.* to 10*s.* 6*d.* per lb. net on spot, according to seller.

CALUMBA remains very scarce, with washed pickings offering at 100*s.* per cwt.

CAMPHOR (REFINED).—Japanese slabs for July-August shipment have been sold at 3*s.* per lb. c.i.f. Marseilles. The spot price of slabs is 3*s.* 3*d.*, which could possibly be shaded a trifle; there has been a small inquiry this week. English bells remain firm and unchanged at 3*s.* 6*d.* net, but refiners, in view of the orders on hand, are not keen sellers.

CAMPHOR OIL.—Sales of Japanese white to come forward are reported at 78*s.* per cwt. c.i.f. terms; no spot supplies are available.

CANARY-SEED is firm at 86*s.* to 88*s.* per quarter for fair to good Morocco, with business doing at these quotations.

CAPSICUMS.—At auction 61 bales stalky red Bombay were bought in at 50*s.*

CASSIA OIL is firmer on the spot, the value of 85 to 90 per cent. c.a. being 5*s.*, 80 to 85 per cent. 4*s.* 9*d.*, and 70 to 75 per cent. 4*s.* 6*d.* per lb.

CHAMOMILES.—Sales of old crop Belgian have been made up to 380*s.* per cwt. on the spot.

CHILLIES.—At auction 241 bags Japanese offered and 63 sold at up to 46*s.* for slightly damaged; fair were bought in at 66*s.*

CINCHONA.—At the London auction on Tuesday 41 bales East Indian offered and part sold at 1*s.* to 1*s.* 3*d.* for root and 9½*d.* to 11¼*d.* for stem; 308 bales Calisaya quill were bought in at 1*s.* 7*d.* to 1*s.* 10*d.* per lb.

CLOVE OIL.—The prices quoted by English drawers range from 9*s.* to 9*s.* 6*d.* per lb., but they are indifferent sellers owing to the amount of business on hand.

CLOVES have been quiet but steady, with sellers of fair Zanzibar on the spot at 1*s.* 3½*d.* and buyers at 1*s.* 3*d.*

COD-LIVER OIL.—The Bergen market remains without quotations or business. On the spot (London) from 425*s.* to 430*s.* per barrel is quoted for finest medicinal 1916 oil.

"Morgenbladet" (June 24) records that the spring cod-fishing has turned out unusually good, the week's catch being the best of the season, namely, 3 million kilos. of cod, over 600 barrels of cod-liver oil, and some million kilos. of haddock and other fish. The unexpected turn for the better is due to the good weather and uniformly successful fishing all along the coast. The presence of the "outrage boats," however, caused a great deal of alarm, it is impossible to say how much. [This report has little bearing on the general situation of the catch, final Finmarken figures being given in last week's issue.—ED.]

COPPER SULPHATE is quiet at from 62*l.* 10*s.* to 63*l.* per ton for export. The exports from the U.K. during June were 4,917 tons, against 5,048 tons in June 1916.

CORIANDER-SEED is a little lower on the spot at 67*s.* 6*d.* per cwt. for fair Morocco, but dearer for new crop at 45*s.* c.i.f. terms for shipment.

CREAM OF TARTAR remains firm and very scarce, values being nominal at 245*s.* per cwt. for 95 per cent. and 247*s.* 6*d.* for 99 to 100 per cent.

CUMIN-SEED.—There have been further sales at 67*s.* 6*d.* per cwt. for sifted Morocco on the spot, being steady.

DIAMIDOPHENOL is quoted at from 26*s.* 6*d.* to 27*s.* per lb. net as to seller.

DILL-SEED is dearer, with retail sales at 55*s.* per cwt.

ERGOT remains firm, with sellers of sound Russian at 2*s.* and Portuguese at 2*s.* 3*d.* per lb.

FENUGREEK-SEED is quiet at 37*s.* per cwt. on the spot.

FORMALDEHYDE remains firm at 130*s.* per cwt. net on the spot in casks for 40-per-cent., with the possibility of still higher prices.

GENTIAN is rather firmer at from 77*s.* 6*d.* to 80*s.* per cwt. on the spot for French just landing, and cut is about 90*s.*

GINGER.—At auction 588 bags Cochin and Calicut were bought in; of 268 bags Japanese limed 40 sold without reserve at 40*s.* for fair, slightly wormy and very wormy at 37*s.*

GLUCOSE.—American crystal corn syrup for July to September delivery is quoted ex store at 46*s.* per cwt. Solid is 3*s.* to 4*s.* higher this week.

HEXAMINE remains on the easier side, with sellers at 3*s.* 6*d.* per lb. net.

HONEY has been in rather better demand, principally Cuban description.

JUNIPER-BERRIES are firmer, spot holders asking 32*s.* 6*d.* per cwt. for Italian.

LEMON OIL.—A Messina advice dated July 6 states that the market since our last report of June 28 has gained strength, as we anticipated, and as buying in Sicily is becoming more general there is a small advance in price. To-day's quotation for reliable oil is 4*s.* 2*d.* c.i.f. London, including war risk at present rate. As is usual at this time of the year there are rumours that the growing crop of lemons has been damaged, but from investigations made our opinion is that so far it promises to be as large as last. Anyway, it will probably be more than sufficient to meet the demand expected for the oil.

LIQUORICE-ROOT is still scarce, the value of ordinary decorticated being about 105*s.* per cwt.

LYCOPODIUM is still obtainable at 4*s.* 9*d.* per lb. on the spot for treble sifted.

MENTHOL is quiet, with sellers of Kobayashi-Suzuki at 10*s.* 6*d.* per lb. on the spot.

MINT OIL.—The sales include 100 cases Kobayashi-Suzuki at 3*s.* 3*d.* per lb. c.i.f. Marseilles for July-August shipment.

OTTO OF ROSE.—The Bulgarian "Narodni Prava" (June 20) publishes a report of the Central Meteorological Station at Sofia on the agricultural conditions in Bulgaria, in the course of which it states that rose-culture is not giving satisfactory results. The roses are inferior in quality, and owing to the low prices of both roses and attar of roses and the high cost of labour the gathering has been abandoned in many places.

PALMAROSA OIL is extremely scarce on the spot, the value being about 15*s.* per lb.

PEPPER.—Quiet, but steady, with spot sellers of fair *black* Singapore at 10¾*d.*, *white* ditto at 1*s.*, and Muntok at 1*s.* 0½*d.* At auction 119 bags Tellicherry offered and 37 sold at 11¼*d.* per lb. for fair.

PEPPERMINT OIL.—Although the demand remains poor on this side, the price in America shows a further advance to 13*s.* per lb. c. and f., and on the spot up to 14*s.* is quoted.

PIMENTO is dull, with spot sellers at 3½*d.* per lb.

POTASHES.—Montreal firsts are nominally 205*s.* per cwt., and seconds 195*s.* on the spot.

RESORCIN.—Prices vary from 80*s.* to 95*s.* per lb. as to holder.

SACCHARIN to come forward from America has been selling freely—*i.e.*, all that is offered is readily taken up, with sales up to November at 295*s.* and at 310*s.* for prompt shipment.

SALICYLATES.—The spot quotation for B.P. sodium salicylate is firm at 9*s.* per lb. net, and a limited quantity of B.P. salicylic acid is still available at 7*s.* to 7*s.* 3*d.* net on the spot, although some are holding out for a much higher figure.

SALOL remains firm at from 10*s.* to 10*s.* 6*d.* per lb. net on the spot and at 10*s.* afloat.

SALVARSAN.—The New York price has advanced to $13.00 per tube, after business done at $10.50, $11.00, and $12.25. The price of neo-salvarsan has also advanced to $12.75. The question of taking over German patents on salvarsan or suspending them for duration of the war is (says the "New York Commercial") likely to come before President Wilson for consideration.

SARSAPARILLA.—A lot of about ten bales Lima-Jamaica just landed has been sold at about 3*s.* 3*d.* per lb., and for Honduras about 2*s.* 4*d.* has been paid.

SHELLAC is steady, with a small business on the basis of 215*s.* to 216*s.* per cwt. for usual standard quality TN on the spot; fine Orange is 295*s.*, and AC Garnet 230*s.* per cwt.

SILVER SALTS.—Argent proteinate is quoted at 12*s.* 9*d.*, and nucleinate at 35*s.* per lb.

SULPHUR.—An Italian Decree published in the "Gazzetta Ufficiale" May 16 places under the control of the Government the production, working of, and trade in Italian sulphur for the duration of the war, and for six months from the proclamation of peace. The Decree empowers the Government to requisition stocks and to fix maximum prices.

THEOBROMINE SODA SAL. is offered at the rather lower figure of 48*s.* 6*d.* per lb. net.

TURMERIC.—Sales of Madras finger have been made at up to 47*s.* 6*d.* per cwt. on the spot, with 50*s.* asked; value of Cochin split bulb is about 40*s.*

TURPENTINE.—A good business has been done during the week, with little change in price, American closing quiet at 55*s.* 6*d.* per cwt. on the spot.

VANILLIN is again higher at from 45*s.* to 47*s.* 6*d.* per lb. net as to seller.

WAX, JAPANESE.—Good pale squares on the spot are quoted at 79*s.* per cwt.

German Drug-markets.

THE following notes chiefly refer to the Hamburg and Berlin markets under date of June 20:

AGAR-AGAR is extremely scarce at from m.52 to m.53 per kilo. when obtainable. New imports from neutral countries have been made impossible by the measures taken by the German Government.

AMMON. CHLOR. is not to be had, as raw material has been commandeered for war-purposes, and makers have withdrawn from the market.

ANISE.—Spanish and Russian are unobtainable. A large quantity of Bulgarian, similar in quality to Russian, has been imported, however, and is offered at from m.530 to m.546 per 100 kilos.

CARRAGHEEN MOSS.—Though offered at considerably lower prices by neutrals, the Government has not permitted importation. Consequently the small remaining stocks have diminished further, and prices have again advanced, from m.18.50 to m.19.50 per kilo. being asked.

PAPRIKA.—The demand has considerably increased, as the Hungarian Government has prohibited exportation. Prices vary between m.18 and m.22.50 per kilo.

POTASH CARB. is asked for in large quantities at present as a substitute for soda, sodium hydroxide, etc., but makers cannot meet the demand. Prices have also been advanced considerably. White (80-85 per cent.) is m.78 to m.80 per 100 kilos.; 90-95 per cent. from m.83 to m.85 per 100 kilos.

POTASH SALTS.—The new law regulating potash salts prices, incorporating the proposals of the Potash Committee, passed its third reading in the Reichstag on May 14. By this law the following prices were fixed as the maximum payable by the home consumer for every hundredth part of potassium monoxide (K_2O) in the kilo.: Ground carnallite with 9-12 per cent. K_2O, pf.16-18; ground crude salts (12-15 per cent.), pf.16-18; manuring salts (20-22 per cent.), pf.23; ditto, 30-32 per cent., pf.23½; ditto, 40 to 42 per cent., pf. 25½; chloride of potash, 50 to 60 per cent., pf.37; ditto, over 60 per cent. K_2O, pf.40; sulphate of potash with over 42 per cent., pf.43; and sulphate of potash with magnesia, pf.40. These prices are an increase of pf.5 per 1 per cent. of K_2O in the kilo. for every kind. The Potash Syndicate has declared the fixed prices to be inadequate and has addressed a new petition to the Reichstag.

WOOL-FAT.—An Imperial Order, which came into force on June 20, has been issued, fixing maximum prices for wool-fat as follows: Wool-fat free from water (*anhydrite*), maximum price per 100 kilos., 450m.; neutral wool-fat and wool-fat acid, 350m.; crude wool-fat, 300m.

The "Chemiker-Zeitung" (May 23), in a review of the chemical industry in Germany during April 1917, states that the position was distinctly satisfactory, considering war conditions, although there was naturally still much to be desired. The yearly settlements of most industries showed good results. Transport improved in April, although complaints were still rife. The prospects for export after the war cannot be regarded as unfavourable.

CHARCOAL.—In the charcoal industry, and in the manufacture of acetone, acetic acid, methylated spirit, and formaldehyde there was no change in the preceding month. A satisfactory rise in selling-prices to meet increased costs has not been effected, and cannot be hoped for. Wood has to be bought at a higher price in order that deliveries may be hastened. The work of prisoners of war was far from satisfactory.

DYES AND PHARMACEUTICAL PRODUCTS.—Large army contracts keep an increased staff in constant activity. The recent amalgamation of a number of works is expected to have a favourable influence upon competition with foreign countries after the war, which will no doubt be keener than before.

ESSENTIAL OILS AND ESSENCES.—We must, apparently, cease to expect reports from the factories as to the degree of their activity during the war—even such reports as are merely general and would assist in reinstating and strengthening the position of our industries in the coming peace-time.

OILS AND FATS.—There was great difficulty in procuring raw materials. Buyers are also holding back. Selling-prices were satisfactory, but it is doubtful whether the import of raw materials can be improved. Costs are increasing.

POTASH.—A leading company, manufacturing chiefly manuring salts, high-grade potassium chloride, table-salt, and bromine, reports that the output was rather less in March, but about twice as large as in April 1916. The delivery of fuel gave much dissatisfaction. Working-costs rose, but selling-prices did not show a corresponding rise. The employment of prisoners of war did not prove satisfactory.

TARTARIC AND CITRIC ACIDS.—The manufacture of these and of cream of tartar and glycerin substitute showed no change. Prices for tartaric acid were satisfactory. The supply of fuel was good, but the same cannot be said of raw materials; the cost of both was high.

Surrey Herb-crops.

Potter & Clarke, Ltd., send us the following report as to the condition of the herb-crops on their Carshalton farm: "Owing to the extreme drought in the districts of Mitcham and Carshalton the growth of herbs has been much retarded, and, even though rain has now fallen, crops are likely to be short. *Lavender* is backward, and likely to be a short crop. *Thyme*: The late frosts killed a great many of the plants, and crop will be short. *Chamomile* will be a fair average crop; rather backward. *Southernwood* will be a good crop. *Hyssop* is healthy, but short. *Marshmallow* looks healthy. *Mint* (black and white) badly wants

rain, and is likely to be a very light crop. *Comfrey* and *Feverfew* are both good crops. *Sage*: A good deal has been killed by late frosts, and the crop will be poor. *Rue* is a very good crop. *Pennyroyal* shows very little growth at present, and is likely to be a short crop."

Carnauba Wax Controlled.

In pursuance of the powers conferred upon the Army Council by the Defence of the Realm Regulations, a War Office Order (July 11) has been issued stating that it is the intention of the Army Council to take possession of all stocks of carnauba wax, excepting stocks of less than 2 tons, that are at present or may hereafter arrive in the United Kingdom. If after this notice any person having control of any such stores sells, removes, or secretes them without the consent of the Army Council, or deals therewith in any way contrary to any conditions imposed in any licence, permit, or order that may have been granted in respect thereof, he shall be guilty of an offence against the said Regulations. All persons having in their custody or control any such stocks are required to make a return thereof, with full particulars of quantity, description, and cost-price, to Director of Army Contracts, Imperial House, Tothill Street, Room 79, S.W. 1, together with all such further and other particulars as to their business as may be required by or on behalf of the Director of Army Contracts.

Arrivals of Chemicals, Drugs, etc.

THE following are among the arrivals at the Ports of London and Liverpool during the period July 10 to 16 inclusive:

To London.

Acetanilide, 7 brls.
Acetic acid, 121 brls. 60 cbys.
Acid and soda diethylbarb., 2 cs.
Ammon. chlor., 1 brl.
Annatto-seed, 18 bgs.
Antim. reg., 182 tons
Argol, 11 bgs.
Arsenic, 169 cwt.
Asthma-cure, 75*l.*
Barbitone, 1 cs.
Barytes, 20 brls.
Belladonna-root, 38 bgs.
Benzoin, 76 cwt.
Bromides: potash, 15 cs. 5 kgs.
Bronze powder, 10 cs.
Burdock-root, 150 bgs.
Calumba, 84 bgs.
Camphor, 200 cs.
Cantharides, 30 cs.
Carbon tetrachlor., 4 cs.
Cardamoms, 197 cs.
Cassia-bark, 150 bgs.
Chaulmoogra oil, 5 cs.
Chlorophyll, 3 cs.
Cinchona, 19 cs.
Citric acid, 40 kgs.
Copaiba, 20 cs.
Cream of tartar, 5 cks.
Dental goods, 2,649*l.*
Diphenylamine, 18 brls.
Drugs, unrated, 156*l.*; herbs, dried, 22 bls.; roots, barks, herbs, etc., 46 pkgs.
Dyestuffs, unrated, 53 pkgs. 24 brls. 12 kgs.; cochineal, 25 bgs.; cutch, 25 bxs.; hematine cryst., 29 brls.; indigo, 112 chts. 59 cs.; logwood ext., 15 cks. 23 brls.; myrabolans, 2,000 bgs. 5,819 pockets; quebracho ext., 1,494 bgs.
Formic acid, 83 cs.
Fullers' earth, 113 tons
Gallic acid, 7 pkgs.
Galls, 4,597*l.*
Gelatin, 3,189*l.*
Gums (cwt.): chicle, 52; damar 188; kauri, 107; olibanum, 340; tragacanth, 62; unrated, 7
Heliotropin, 1 cs.
Hydroquinone, 23 kgs.
Insect-powder, 8 bgs.
Insecticide, 4 cs.
Iron oxide, 15 brls. 75 cks.
Juniper-berr., 50 bgs.
Lead acetate, 82 brls.
Loofahs, 654*l.*
Menthol, 10 cs.
Methyl sal., 17 cs.
Milk-sugar, 150 cs.
Nuts and kernels (cwt.): arachis, 67,146; copra, 12,923
Nux vomica, 335 bgs. 758 pockets
Oils, essential, 235 cs. 3 brls.; anise, star, 380 cs.; synthetic oils, 21 cs.
Oils, fixed: arachis, 4,150 cs. 882 cks. 14 dms. 132 brls.; castor, 401 cks. 58 brls.; coconut, 27 pps.; fish, 1,450 cs.; olive, unref., 168 tuns; teaseed 14 dms.; wood, 18,766*l.*
Ointment, 619*l.*
Opium, 62 cs.
Orpiment, 33 oks.
Orris, 52 bgs.
Oxalic acid, 32 cks.
Pancreatin, 1 cs.
Paraffin oil, med., 133 cs.
Paraldehyde, 4 cs.
Perfumery, unrated, 2,533*l.*; perf. water, 184*l.*
Phenacetin, 18 cs.
Potash iodide, 10 cs.
Potash sulphoguaiac., 5 cs.
Potashes, 10 brls.
Pyntrocide, 488*l.*
Pyrogallic acid, 4 cs. 6 brls.
Quinine, 194,585 oz.
Rosin, 2,100 brls.
Salol, 5 kgs. 30 pkgs. 10 cs.
Saltpetre, 3,510 cwt.
Scopolia-root, 38 bgs.
Seeds (bags): annatto, 18; canary, 729; castor, 14,397; cumin, 20; dari, 1,803; dill, 340; fennel, 200; lin., 16,188; mustard, 462; rape, 3,450; safflower, 400; sunflower, 549
Senna, 52 bls.
Shellac, 751 cwt.
Silver nitrate, 26 pkgs.
Soda butyrate, 4 cwt.
Soda hyposulph. 3 tons
Soda salicyl., 11 cwt.
Starches (cwt.): farina 2,423; maize, 300; potato flour, 13,292
Sulphur fumigators, 20 cs.
Talc, 430*l.*
Tannic acid, 10 brls.
Tartaric acid, 4 brls.
Vacuum flasks, 413*l.*
Wax, bees', veget., etc., 3 cks. 6 cs. 143 bgs.
Wax, paraffin, 4,610 cwt.
Waxes, undescribed, 129 cs. 34 bgs. 168 pkgs. 168 bdls.
Zymine pept. 12 cs.

To Liverpool.

Acetate of lime, 801 bgs.
Ammon. brom., 10 kgs.
Ammon. nit., 239 cks.
Arsenic, 62 tons
Calc. carbide, 910 dms.
Cream of tartar, 20 cks.
Dental goods, 46*l.*
Drugs, unrated, 113 pkgs. 20 bxs. 11 bls. 3 cs. 6 cks.
Dyestuffs, unrated, 257 brls.; dyewood ext., 14 brls.; fustic, 15 tons 3 cwt.; logwood, 42 tons; logwood ext., 1,410 cks.
Gums: acacia, 1,948 bgs.; copal, 8 brls.
Lac, button, 10 cs.
Lactic acid, 125 cks.
Magnesite, 4,800 tons
Mineral white, 800 bgs.
Nuts and kernels (bgs.): copra, 1,306; palm-kernels, 10,010
Oils, essential, unrated, 209 cs. 2 bxs.
Oils, fixed: arachis, 1,000 cs.; coconut, 282 brls.; cod-liver, 6 brls.; cotton, 1,000 brls.; olive, 45 cks.; palm, 728 cks.
Petroleum jelly, 50 brls.
Phosphorus, amorph., 2 cs.
Potash bromide, 50 cs.
Potash, caustic, 32 dms.
Rosin, 9,424 brls. 120 cks.
Seeds (bags): cotton, 3,267; lin, 649
Soda nitrate, 17 cks.
Soda salicyl., 2 kgs.
Starches, 10,590 bgs. 850 bxs. 220 sks.
Surgical app. 54*l.*
Talc, 4,350 bgs. 34 cs.
Tartar, 22 cks.
Tartaric acid, 4 brls.
Tonka beans, 2 cs.
Vaseline, 811 cs. 7 brls.
Wax, bees', 705 pkgs.
Wax, candelilla, 56 bgs.
Wax, carnauba, 251 bgs.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Mysore Santalwood Oil.

SIR,—I have read with interest the letter from Evans Sons Lescher & Webb, Ltd., in the *C. & D.*, July 14. With this letter I cordially agree. It is true that the German distillers had done everything they could to cut down the price of santalwood oil, probably with the intention of driving the English manufacturers out of the market. In this they signally failed. I also agree that there is no oil finer in colour, nor in perfume-value, than that manufactured by the English distillers, which deservedly has a world-wide reputation. The utterly absurd limits which have been placed on the wood at the auctions makes it appear to all unbiassed purchasers that the action of the Mysore Government can only be explained on a revenue basis. One important factor has probably been left out of their calculations—viz., that a very large amount of santalwood oil is used for perfumery-purposes, or, I should say, was used for perfumery-purposes, since at present prices many large users have had to abandon it. I know of one case at the present moment where orders for a certain perfumed article which require about two thousand pounds of santalwood oil for the perfume remain unexecuted on account of the extravagant values of santalwood oil. If a course of wisdom be followed, santalwood oil will rapidly fall in price.

Yours faithfully,
ERNEST J. PARRY.

56A Great Dover Street, London, S.E.

Wholesalers and Retailers.

SIR,—Those who had the privilege of hearing Mr. Hill's address at the British Pharmaceutical Conference must feel grateful to him for putting his finger upon one of the chief sources of weakness in pharmacy. The lack of co-operation between the wholesale and retail sections is deplorable, but it could also be matched by the lack of co-operation between the retail section and the public services. The lack of status to the practising pharmacist in the Army Medical Service is only a consequent of the lack of attention to the public services in the past. The Council of the Pharmaceutical Society as a possible source of co-ordinating energy must be largely discounted. Many of its sincerest friends are only too conscious of its limitations and lack of vision. Mr. Hill's suggestion for a composite body is an excellent one, and this idea is no new one to him, as those who heard him in his address to the North London Association are aware. Recently the Progressive Pharmacy Club decided to tackle this question, and issue to its members all the evidence for and against the co-ordinating idea of all pharmaceutical segments. I think I can thank you, on behalf of many members of the forward movement, for the suggestion that the British Pharmaceutical Conference might take the initiative, and I would suggest that another Committee be set up, called the Political Committee, which could get to work at once, unhampered by officialism, and invite the Council of the Pharmaceutical Society to appoint two members; the others would be selected from the various interests affected.

SIGMA. (80/17.)

The Price of Sulphate of Copper.

SIR,—Mr. Goode has misunderstood my idea in contributing to this question. I assure him it was not my intention to prejudice his present or future claims to what he considers to be a fair profit. I pointed out that, as compared with retailers of this article in co. Tyrone, he is in "clover." After all, if I may be permitted to say so, 20 per cent., or nearly, is a fair remuneration for distributing an article that is sold in such large quantities as tens of thousands of pounds' worth by chemists in England and Scotland (Pharmaceutical Society's meeting, *C. & D.* report, July 7, p. 45), but then everything in this world is relative, and this is only my opinion. I take a personal interest in copper sulphate as a preventive of potato-blight. Twenty-five years ago my father, with the help of Sir Wm. Goulding, P.C., in order to demonstrate its utility in that direction, distributed it free of all charge and supplied the sprayers too to all who cared to try it. So soon as the demand started the grocers all commenced to meet it, and from that on, with the exception of this year, I have been

compelled to sell at from 3 to 5 per cent. profit or lose the business. With reference to the latter part of Mr. Goode's letter I can only say that it would grieve me very much to think my letter on this matter would or could be used by an official body to prejudice the legitimate claims of his English brethren for proper remuneration for professional services rendered to the State. But then they have their unions, and this matter is in their own hands, at least as far as National Health Insurance is concerned.

Yours faithfully,
Pomeroy, co. Tyrone. J. T. GRIMES.

Progressive Pharmacy Club.

SIR,—I notice that two of your correspondents have declared what is supposed to be the policy of the "Script," and from their statements I am wondering where the editor of that publication comes in. Undoubtedly we are associated with a progressive propaganda, but I believe for activating the dry bones of pharmacy a Progressive Club has been formed recently to crystallise the movement, and doubtless it was this institution to which Mr. Wolff referred. That the "Script" will support such centralisation of energy is only a reasonable expectation.

EDITOR OF THE "SCRIPT."

SIR,—Regarding the correspondence in your recent issues anent the question of forming a new movement in pharmaceutical politics and to use the "Script" as the medium for its propaganda, I know no reason why, although originally published for affairs directly connected with London Associations, that paper should not be open to all chemists who care to use its columns, and to direct a national policy and not merely local. London is bound up with the same pharmaceutical politics as the smallest community of chemists in the country, and there can be, in the nature of things, little or no difference here. Of the aims and aspirations of the proposed new movement I have heard nothing, but if, as Mr. H. Wolff writes, they are in the common good of pharmacy, such an organisation should be capable of good service. I suppose that Mr. Wolff's request for post-cards from chemists who are interested is best to start with, but I think that he and his friends might also see the advisability of publishing their ideas or scheme.—Yours truly,
Sydenham. J. Y. FAIRWEATHER.

The Progressive Element.

SIR,—I am grateful to Mr. John Keall when he says that my zeal has outrun my discretion in regard to the "Script," for it drives home the fact that if our so-called leaders had been a little more zealous and possessed a little less of what they label "discretion" and what other people call "secrecy," pharmacy would be in a better position to-day. Mr. Keall refers to the "self-entitled" progressives, and later on points out that the "Script" has always been allied with the progressive movement. Perhaps Mr. Keall will tell us whether the progressive movement was "self-entitled," or whether he claims a proprietary right to the word "progressive." Mr. Keall says that the "Script" should still be the medium for expression of the considered views of the members of the London and District Associations, and that it should still stand for forward advance on sane and moderate lines in pharmacy. Quite so. That is the policy of the "Script" directors, and it is a little pathetic to see Mr. John Keall (a director of the "Script") criticising definite lines of policy which his fellow-directors have already agreed upon. HUGO WOLFF.
Tottenham, N.

The Title "Chemist."

SIR,—Your editorials on the chemist's title have been interesting, and I hope you will continue the series. Tell us about the drug-stores which can do 90 per cent. of our trade without any examination or selling any poisons, and the cash chemists to whom the word "cash" is a godsend in protecting them against credit for small purchases. Then there is the modern chemist, such as Brunner, Mond & Co., and the wild scramble since the war to supply our chemical wants. This new-fangled chemical-trade is the prodigal son returned to be feasted, and whatever he asks the Government will give him. If these chemists ask for the title "chemist" they will get it, and we shall simply be put in our corner, as we have been scores of times during the last twenty years. It would be far better policy to go to these chemical people and meet them half-way by offering the title to them. JAY MACK.

Subscribers' Symposium.

Card-index for Prescriptions.

Mr. J. Austin Bayes, Rugby, would like to have the opinions of chemists who have used a card-index system for prescriptions. Is this method really an improvement on the older prescription-book?

Is this Profiteering?

Woburn Place (79/60) writes that on Friday last a friend of his purchased from a chemist in the West-end of London Epsom salts 2 oz., cream of tartar 1 oz., and sulphur 1 oz., for which she paid 1*s.* 5*d.* Another chemist, who holds the appointment of Chemist to the King, charges 5½*d.* Can one really wonder why so many people prefer dealing with the stores?

Ropiness in Bread.

Cactus (23/85) writes: "I am not sure that I agree with the explanation offered by Mr. Watkins as to the cause of ropy bread, for if the ropiness be due to a bacillus that lurks in the bran-coats, why is it that I, who have eaten bran-bread, whole-meal bread, etc., for twenty years, have never seen a 'ropy' loaf? My theory is that 'ropiness' is due to too large a percentage of proteid matter in the bread, this being obtained by adding the meal of leguminous cereals, such as beans or peas. Such a mixture would form ideal feeding-material for bacilli, and the fact that the diluted flour varies in composition seems sufficient to account for the unequal distribution of the 'disease.'"

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

H. C. (81/37).—The licensing regulations regarding the sale of spirit have not been relaxed in any way by the release of certain spirits for use in perfumery.

Taraxacum (76/56).—Conditional exemption having been given you because you are considered indispensable, it is not certain that you would obtain exemption if you transferred your services elsewhere.

G. W. S. (54/53).—(1) It is impossible for us to know whether the title "Dr. C——'s Skin Ointment" infringes any other person's rights. (2) The use of the word "agents" on the label of the preparation which you make yourself may make it necessary for you to register under the Registration of Business Names Act, as you appear to be trading as "Dr. C——."

F. A. N. (80/72), who is classified B1, is the manager of a business, and has been granted by a Tribunal exemption from military service until a suitable substitute for him is provided. He will be leaving his present situation when the daughter of the late owner of the business has qualified. Will he then be entitled to secure another post of a similar character and lodge a fresh application for exemption? [Unless the exemption granted to "F. A. N." was declared to be final we believe that he is entitled to obtain other employment before he is called up, and to make another application to the same Tribunal for exemption. We think, however, that there is little likelihood of further exemption being granted.]

Staffs (76/50).—A box of goods was conveyed to "Staffs" by a railway company "at company's risk." Upon delivery, goods to the value of 2*s.* 2*d.* were missing. The company repudiates liability on the ground that the box showed no external signs of having been tampered with. In another case a box of bottles was conveyed to "Staffs" by the railway company "at owner's risk." Bottles to the value of 4*s.* 3*d.* were found to be broken upon arrival. Do we advise "Staffs" to sue the company in either or both cases? [We do not advise "Staffs" to sue the company in the first case unless he can prove that the full quantity of goods was in the box when it was handed to the company, or in the second case unless he can prove that the breakages resulted from wilful misconduct on the part of the company's servants.]

E. C. (80/45).—Can an employer be sued for breach of contract if he fails to provide his assistant with sufficient food? Could the assistant in such a case sue his employer to recover the amount he (the assistant) has had to spend in procuring food? [If the employer contracted to provide his assistant with food and failed to supply a reasonable quantity, he would, we presume, be liable in damages for breach of contract. The measure of damages in such a case would, no doubt, be the expense to which the assistant was put in obtaining food in order to increase his employer's allowance to an adequate quantity. We should, however, have great hesitation in advising an assistant to sue his employer in such circumstances, since the question what is a reasonable quantity of food is one which is capable of great divergence of opinion. Unless the insufficiency of food was particularly apparent our advice to the assistant would be to leave his employer rather than risk an unsuccessful action against him.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

C. H. (81/6).—PRESERVING PEAS.—We know of no substitute for copper sulphate as a mordant for fixing the green colour of peas. The only purpose of the copper salt is to preserve the green colour of young peas, but peas are often canned without the use of this mordant. We are told that by careful selection of the peas—picking at the right time—and correct "processing," the colour obtained without copper is not much inferior. Sometimes alum-water is used for dipping the peas in after "blanching," but this is intended to harden the peas, and has nothing to do with fixing the colour.

J. H. (71/34).—PREPARATION OF CHEMICALS.—There are not, so far as we are aware, readily accessible published details of the commercial processes used for making acetic anhydride, dimethyl sulphate, and diethyl sulphate. You will require to search chemical literature to learn what processes have been suggested, and then work experimentally to see which is best suited for your purpose. For the manufacture of acetic anhydride, for example, you should read the patent-specifications: Kessler's French patent 315938; Goldschmidt's English patent 25433 of 1908, and the Act.-Ges. für Anilinfabrikation's English patent 23924 of 1910. In the case of dimethyl and diethyl sulphate the references given in Thorpe's "Dictionary of Applied Chemistry" will serve as a beginning, and you could then search the abstracts published by the Chemical Society and the American Chemical Society.

J. H. B. (81/4).—The sugar-substitutes to which you refer are invert sugar, and are identical with honey, except that they do not possess the same flavour. Invert sugar is generally made by heating sucrose solution with a small quantity of acid, and afterwards neutralising the acid with soda.

Irish (76/8).—There is no doubt that the sheep died from a disease of an anthracoid nature, which may have been developed by the change of pasture. The veterinary surgeon's verdict can hardly be disputed, as it was founded on microscopical examination. There are many poisonous plants which have been known to affect animals eating them. The *Umbelliferæ* are met with chiefly in low-lying, marshy ground. As a rule there is no time for treatment when animals are suffering from poisonous herbage, but to those which are suspected of having eaten unwholesome plants can be administered a drench consisting of potassium permanganate and alum of each 10 gr. in water 2 pints.

J. W. (72/27).—HARMLESSNESS OF GLUCOSE.—Since sugar has to be converted into glucose before it can be employed in the human body, you can assume that glucose is perfectly harmless, and also that its use in jams is wholesome.

J. T. S. (216/5).—MOSQUITO-CONES.—The following two recipes are from "Pharmaceutical Formulas":

1.		2.	
Powdered charcoal	ʒxvj.	Powdered charcoal	ʒxvj.
Nitrate of potassium	ʒij.	Nitrate of potassium	ʒij.
Carbolic acid ...	ʒiss.	Benzoin	ʒiv.
Insect-powder ...	ʒviij.	Hard tolu balsam	ʒij.
Tragacanth mucilage ...	a sufficiency	Insect-powder ...	ʒiv.
		Tragacanth mucilage ...	a sufficiency
Make into a stiff paste with the mucilage, and form into cones weighing about ʒj. each.		Powder the solids and make into cones in the same manner as No. 1.	

W. P. S. (48/23).—The address of the Westminster College to which we referred in our reply to your inquiry (*C. & D.*, June 23, p. 56) is 190 Clapham Road, S.W. 9.

P. & Co. (81/15).—OIL OF ST. JOHN'S WORT is made by infusing flowers of St. John's wort (*Hypericum perforatum*) 4 oz. in olive oil 2 lb. until well coloured, and then straining.

M. B. W. (81/17).—SAL SODA is common sodium carbonate.

J. A. (11/28).—We understand that pressed yeast can only be made successfully from distillery yeast, of which there is at present a great scarcity. The yeast is washed and pressed in bulk first, then into cakes.

M. & Co. (76/13).—COPYING-GRAPH without glycerin.—We have no formula for this, but see suggestions made at various times—*c.g.*, April 28, p. 50.

T. W. (79/61).—BOOKS ON OPTICS.—See *C. & D.*, July 14, p. 52.

H. E. B. (59/74).—We do not know a wound-dressing with the name "Sinclair's paste." There is Professor Rutherford Morison's paste—"Bipp"—composed of bismuth, iodoform, and paraffin. It may possibly be a misnomer for Dr. Sinclair Kirk's first-aid dressing with urea, about which there was a note in the *C. & D.*, December 11, 1915, p. 53.

Contralto (69/56).—BOOK ON ORGANIC ANALYSIS.—The only book which we know of covering the various organic analyses to which you refer is Allen's "Commercial Organic Analysis," which is published by J. & A. Churchill in eight volumes, at 21s. each. The processes given are both qualitative and quantitative. Vol. I. contains the information you want on gums, starches, and sugars; alkaloids are dealt with in Vols. VI. and VII.

H. L. (52/50).—PRESERVING SKIN-COVERED CANOE.—We cannot suggest any better treatment than the application of solution of hydrarg. perchlor. in spirit, unless it be the use of *arsenical soap*, as employed by taxidermists. The formula is as follows:

Powdered camphor	ʒvj.
White arsenic	ʒiv.
Slaked lime	ʒiv.
Sodium carbonate	ʒxij.
Soft soap	ʒiv.
Water ... a sufficiency to make a stiff paste	

Juno (49/22).—(1) SODIUM-SALICYLATE SOLUTION is made by dissolving salicylic acid 414 gr. and sodium bicarbonate 256 gr. in sufficient water to make 6 oz. This forms a 10 gr. in ʒj. solution. The way the solution is worked out is shown in the *C. & D.*, August 21, 1915, p. 60. (2) SUN-BRONZE is managed, we believe, with such substances as logwood extract, caramel, and burnt umber, but we have no definite formula in our collection.

G. P. (49/40).—(1) POLISHING MARBLE is a long and tedious operation, which we do not advise you to undertake. We think that in the case you mention the application of wax varnish will restore the polish sufficiently to make the patch unnoticed. *Wax varnish* is made by dissolving white wax 10 parts in turpentine 88 parts to which japan gold size 2 parts has been added. (2) LIQ. ROSÆ is a solution of otto of rose coloured red with carmine. You will find two recipes in "Pharmaceutical Formulas."

C. D. B. (47/18).—SOAP FOR WOOLLEN GLOVES.—What is wanted is an olive-oil soap made with either potash or soda. Some authorities contend that potash soaps are best for woollen goods, but all are agreed that it should be a neutral soap and one quite free from rosin.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1867.

Extract from the Annual Report of the United Society of Chemists and Druggists.

The relation in which the Executive of the United Society and the Pharmaceutical Council stood to each other during the three months which preceded the Manchester meeting was a deadlock. The Executive had, in October last, exhausted all overtures for co-operation with the Council, and the Council had exhausted all their diplomacy in telling the Executive, without rudeness, that they would neither recognise the United Society nor its Executive as a representative body. *Thus the union of the trade became an impossibility between Council and Executive.* In such a juncture, it was most fortunate that the policy of the United Society, welded by six years of agitation into a simple formula, "INCORPORATION—*with the Pharmaceutical Society, if possible, but*—INCORPORATION," had so thoroughly fastened itself upon the memory, and become the creed, the cry, and the determination of the unincorporated trade, that not a party was to be seen nor a voice to be heard against it. That creed, that cry, that determination was the foregone conclusion of the verdict pronounced by the Manchester meeting—"That the discussion and arrangement of terms for a union of the trade should be no longer obstructed; and that if the Pharmaceutical Council would not listen to the reasonable proposals of that meeting, the trade would then strengthen the United Society for independent action."

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Paraldehyde, B.P., 1 lb. @ 14/- lb.
Pepsin, B.P., 1 lb. @ 14/- lb.
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Phenolphthalein, 1 lb. @ 97/6 lb.
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Plumbi Acetas, Druggists', 1 cwt. @ 123/- cwt.; 7 lbs. @ 1/2 lb.; Powder, 1½d. lb. extra.
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Potassa Caustica Sticks, P.B., 1-lb. Bots. @ 14/- lb.
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Quinine Bisulph., 10 oz. @ oz.
Quinine Ethyl Carb. (Tasteless), 10 oz. @ oz.
Quinine Hydrobromas, B.P., 25 oz. @ 3/11 oz.; 10 oz. @ 4/- oz.
Quinine Hydrochlor., B.P., 25 oz. @ 3/10 oz.; 10 oz. @ 3/11 oz.
Quinine Sulph., B.P., 100 oz. @ 3/- oz.; 25 oz. @ 3/2 oz.; 10 oz. @ 3/3 oz.

Rad. Gentian., English Ground, 1 cwt. @ 118/- cwt.; 7 lbs. @ 1/2 lb.
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Rad. Jalap, English Ground, 28 lbs. @ 1/7 lb.; 7 lbs. @ 1/8 lb.
Rad. Rhei., B.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Rad. Rhei. B.I. Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.
Resorcin, B.P. 1 lb. @ lb.

Saccharine, 7 lbs. @ lb.; ·550 or ·500, 1 lb. @ lb.
Sacchar. Ust., 1 cwt. @ 85/- cwt.; 10 lbs. @ 10½d. lb.
Saffron, Valentia, B.P., 7 lbs. @ 43/- lb.; 1 lb. @ 45/- lb.; 1 oz. @ 3/- oz.
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Salicinum, B.P., 1 lb. @ 28/- lb.
Salol, B.P., 1 lb. @ 10/6 lb.
Sang. Draconis, pulv., English ground, 7 lbs. @ 3/- lb.
Santoninum, P.B., 16 oz. @ 160/- lb.
Sapo Cast. Alb., 2 cwt. @ 60/- cwt.; 7 lbs. @ 8½d.; pulv., 1½ cwt. @ 115/- cwt.; 56 lbs. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.; Animal pulv., 1 cwt. @ 105/- cwt.; 56 lbs. @ 112/- cwt.; 7 lbs. @ 1/1 lb.
Scammony Resin, Pulv., B.P., 7 lbs. @ 10/- lb.; 1 lb. @ 10/6 lb.
Shellac (Orange), 1½ cwt. @ 225/- cwt.; 7 lbs. @ 2/2 lb.
Soda Caustica, 6 1-lb. bots. @ 5/3 lb.
Soda Cit., B.P., 3 lbs. @ 3/6 lb.
Soda Sulphite, Recryst., 1 cwt. @ 35/- cwt.; 7 lbs. @ 4½d. lb.
Soda Sulphocarbolas, B.P., 7 lbs. @ 3/9 lb.; 1 lb. @ 4/1 lb.
Sodii Bromid., P.B., 7 lbs. @ 4/3 lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 34/- cwt.
Soda Hypophosph., 7 lbs. @ 4/-; 1 lb. @ 4/3.
Sodii Salicyl. Pulv., 2 lbs. @ 10/6 lb.
*Spt. Æther Nit. P.B., 4½ lbs. @ 4/9 lb.; 1 lb. @ 5/2 lb.
* " Ammon. Aromat., P.B., 5 lbs. @ 4/- lb.
* " Chloroform, P.B., 5 lbs. @ 4/8 lb.
Strontiæ Bromid., 1 lb. @ 7/6 lb.
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Sulphonal, P.B., 1 lb. @ 47/6 lb.
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* " Rhei, P.B., 7 lbs. @ 11d. lb.
* " Scillæ, P.B., 7 lbs. @ 7½d. lb.
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*Tinct. Camph. Comp. P.B., 5 lbs. @ 3/5 lb.; Aquos, 1/5 lb.
*Tinct. Cantharidis, P.B., 5 lbs. @ 5/1 lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/5 lb.; Aquos, 1/- lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/9½ lb.; Aquos, 1/1 lb.
*Tinct. Catechu, P.B., 5 lbs. @ 3/1½ lb.; Aquos, 1/1 lb.
*Tinct. Chlorof. c. Morph., P.B. 1885, 5 lbs. @ 3/- lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/10 lb.; Aquos, 1/3 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/9 lb.; Aquos, 1/3 lb.
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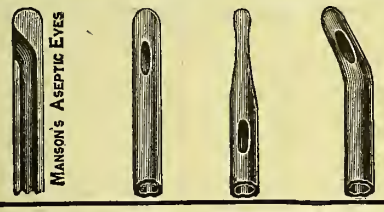

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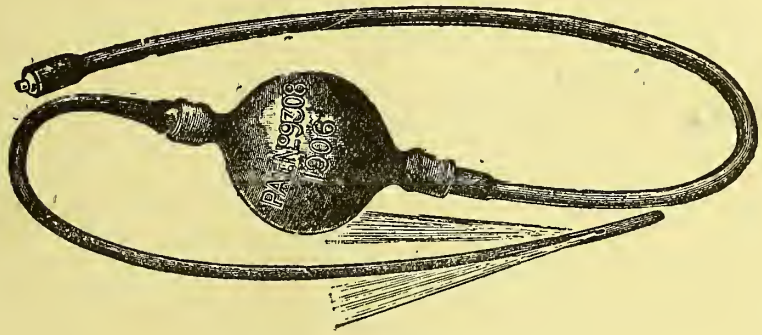

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"DETERGOL" *BRITISH MADE WITH BRITISH MATERIAL.*

AN IDEAL ANTISEPTIC DEODORANT DISINFECTANT.

Contains 20% more Cresol than any other similar preparation.

Superior to any German Preparation.

Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "Detergol."

USED BY THE MEDICAL PROFESSION FOR FOURTEEN YEARS.

TABLETS, PILLS, etc., and
CHEMICAL and MEDICINAL PREPARATIONS of all descriptions
MANUFACTURED BY

HOUGH, HOSEASON & CO. LTD.

Wholesale Manufacturing Chemists ***MANCHESTER.***
Contractors to H.M. Government.

A. DE ST. DALMAS & CO.

Contractors to His Majesty's Government. **LEICESTER.** *(Established 1828.)*

— MANUFACTURERS OF —

MEDICAL PLASTERS

Spread Plasters. Adhesive, Belladonna, Soap Cerate, Roborans, Fleshcolour Adhesive, &c.
Hospital Strapping. On Holland, Pure Stout Calico, &c.
Porous Plasters. All kinds. On Cotton Cloth, Red Felt, White Kid, &c.
Rubber Adhesive Plaster. On Cotton Cloth or Holland—In Tins or on Spools.

Court Plasters, Toothache Plasters, Corn and Bunion Plasters, Mustard Leaves, &c.

SURGICAL BANDAGES

Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web, Crêpe Velpeau, and Plaster of Paris Bandages.

THE LEICESTER "VARICO" LEG BANDAGE.
TRADE MARK.

BRITISH MADE **BRITISH OWNED**

WE CAN GIVE DELIVERY of the BEST WINTER LINE.

"SYMPHELITE" Patent SPIRIT STOVES

Absolutely Safe. No Evaporation in Stock. Cheapest in use. No Wicks. Renewable indefinitely with Methylated Spirit or PETROL.
NOTE.—If upset the "Symphelite" is quite safe. It will either extinguish itself or remain burning on its side like this.

IF UPSET QUITE SAFE.

NO LIQUID.

NO SPILLING.

GREAT DISCOVERY THE ONLY STOVE THAT WILL BURN without a Wick and at 1/20th the cost of Solidified Spirit. PETROL

The New Bunsen Stand burns Petrol without Smoke or Danger.

COMPARISON

		COST.
Solidified Spirit, boils 2 pints in 34 min.	...	2½d.
"SYMPHELITE"—		
With Methylated Spirit ,, ,, 17 ,,	...	¾d.
,, PETROL ,, ,, 9 ,,	...	⅞d.

PRICES
THE "SYMPHELITE" STOVE.

	EACH.
No. 1 STOVES	1s. 3d. and 1s. 9d.
Ditto, Plated...	2s. 9d. and 3s. 6d.
TRAVELLING SETS	2s. 6d.
Ditto, Plated Steel...	6s. 6d.
Ditto, Polished Copper	12s. 6d.
Model de Luxe Sets	14s. and 17s.
SHAVING SETS	1s. 6d.
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LARGELY USED in the TRENCHES.
Also for Hospitals, Nursing, Motoring, Boating, and Household purposes.

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SHANKLIN, ISLE OF WIGHT.
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PRICES.

		£	s.	d.
1 Dozen in Box, with directions	Per Dozen Boxes	0	15	0
1 ,, ,, in 3 Dozen lots	,,	0	14	0

Special Quotations to Shippers and Wholesale Dealers.

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

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ESTABLISHED 1847.

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PLASTERS

A REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
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} ***The Three Reliables.***

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Telegrams: "UNDISPUTED STOCKPORT."

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SANITARY TOWELS.

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SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.

Lightest and Whitest, also Purest Dense

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With Inscriptions in any desired tint; also Plain or Embossed.

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These Cachets are especially adapted for Headache, Neuralgia and other powders

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In 17 Sizes, to fit the various types of Cachet Machines.

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FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

TRIAL BOTTLES 7d. size supplied on pretty showcards.

8/- doz.; 1/2 size, 11/- doz.; 3/6 size, 33/- doz.

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THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

First-Class Mechanical Dentistry.

Reliable workmanship. Popular Prices. Moderate charges for Gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M. Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 20 years' experience of first-class mechanical dentistry.

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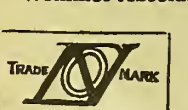
Phone: New Cross 1555.

Wrinkles Absolutely Removed BY



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CACHETS "WEPS" All sizes, 2/6 per 1000, plain or embossed. Write for Samples.

Clinical Thermometers. Medicinal Capsules. Fine Chemicals.

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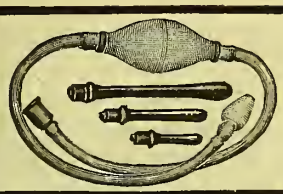

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Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments. Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*

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"Grasshopper" Pills and Ointment have gained a World-wide Reputation for their merit. They are extensively advertised in all parts of the world. Stocked by all Wholesale Houses and Drug Shippers, or can be obtained direct from the Proprietors. Retailers desirous of exhibiting Showcards can obtain same, Post Free, by applying to:

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PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

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WITH

MINIMUM RETAIL.

3d. size...	... 2/- doz.	6d. size...	... 4/- doz.
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3/6 size (1 lb.)	... 28/- doz.		

Evans Sons Lescher & Webb Limited
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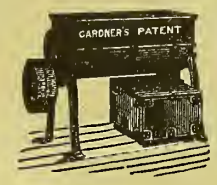
"RAPID" SIFTERS & MIXERS



OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust

FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

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POTATO SPRAYING

NATRO-CUPRYL.

An Improved "Burgundy Mixture" in powder form. Permanent, Soluble and Instantly Prepared.

PRECIPITATED COPPER for DRY SPRAYING.

Full information given on all points relating to Potato Spraying.

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FOR NEARLY ALL INDUSTRIES IN

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PLANTS FOR NITRIC, SULPHURIC & HYDROCHLORIC ACID.

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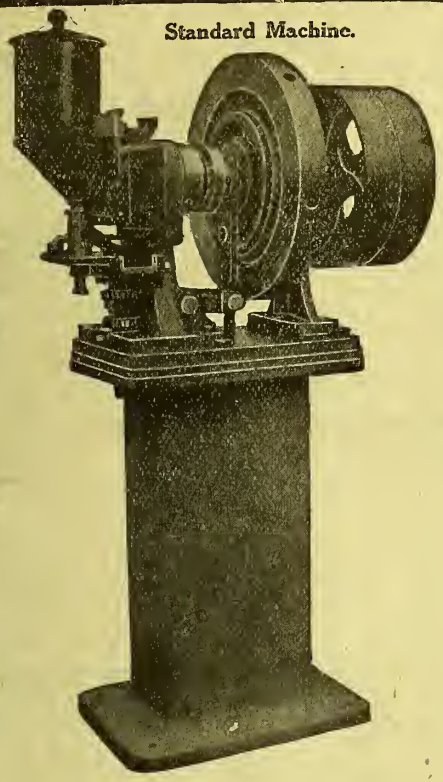
Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

Standard Machine.



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Machines in eight sizes suitable for all requirements for Tablets from 2 inches diameter to Hypodermics; also for Cubes, Octagons and fancy shapes.

PUNCHES AND DIES FOR ANY MAKE OF MACHINE.

Ointment Mills, Gelatine Pill Coaters, Gelatine Capsule Machinery and all general Pharmaceutical Machinery.

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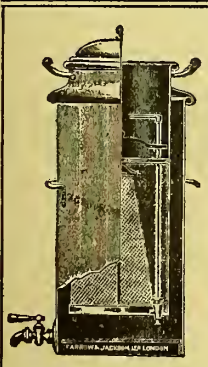
TRADE MARK. **"ROYAL WORCESTER"** TRADE MARK.
IMPROVED
LABORATORY PORCELAIN
IN STANDARD FORMS & SIZES.

THE WORCESTER ROYAL PORCELAIN Co., Ltd., WORCESTER, ENGLAND.



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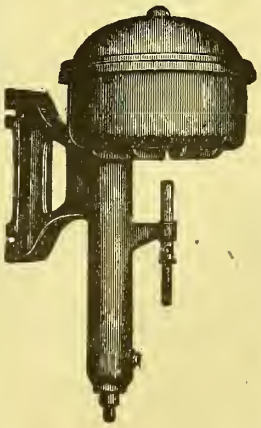
ESTABLISHED 1798.

FARROW & JACKSON, Ltd.
16 Great Tower Street, LONDON, E.C. 3.

STOKES' AUTOMATIC WATER STILL. SIMPLICITY ITSELF.

STOKES' GAS-HEATED WATER STILL will distil half to two-thirds of a gallon per hour.

NO LICENCE NECESSARY.



ENTIRELY AUTOMATIC THEREFORE IT REQUIRES NO ATTENTION.

Most Economical & Efficient Still made.

EASILY FIXED IN A FEW MINUTES.

Only requires Gas and Water Connections.

Carriage Paid British Isles

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THOMPSON & CAPPER, Ltd.
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ESTABLISHED 1843.
Telephone—Royal 2060. Telegrams—"Sanitas Liverpool."

ENO'S

"FRUIT SALT."

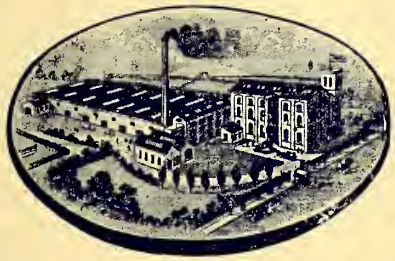
Prepared only by J. C. ENO, Ltd., 'FRUIT SALT' WORKS, LONDON, S.E.

(60)

The Wigglesworth Way

CORNS!

The pinch of the Corn is now being felt. Every sufferer—and there are thousands—is on the look-out for a means of relief from the sharp shooting pains these pests inflict.



The Wigglesworth Way with its original selling ideas has been adapted to specially appeal to these people. The attractive show material, supplied gratis, together with the neat packages, will make a display in the window which cannot fail to draw any Corn victims into your Pharmacy.

There are five lines to select from.

1917 SPECIALITIES

MOVE-ON
and
CORN ROOT DESTROYER

These comprise a tube fitted with Corn Paste, adhesive plaster, and corn pad, enclosed in a slide box, with attractive two-colour label.

GREEN SEAL CORN DISCS

The usual green plaster disc, the oval non-slip protector. The two-colour labelled box in silent salesman outer makes a most effective counter or window display.

EASY CORN CURE
and
KURA KORN

Liquid Corn Paint. The bottle is enclosed in cardboard tube, with an attractive and striking label printed in colours.

Samples and Prices will be sent on receipt of postcard.

WIGGLESWORTH LTD.
WESTHOUGHTON, LANCS.

TO WHOLESALE & EXPORT TRADES. ESTABLISHED 1846.

Extracts
Tinctures in Bond

RANSOMS

Resins
Essential Oils

WILLIAM RANSOM & SON, LTD.,
MANUFACTURING PHARMACEUTICAL CHEMISTS.
Distillers of Essential Oils and Cultivators of Medicinal Plants.
HITCHIN, near LONDON. Telephone: 95 HITCHIN.

50 YEARS' REPUTATION.

FENNINGS' CHILDREN'S POWDERS

ADVERTISED EVERYWHERE. *READY SALES.*

A Guarantee
Cadbury's Cocoa
Made at Bournville.

IS ABSOLUTELY PURE.
The recognised Standard of British Manufacture.

GOODALL, BACKHOUSE AND COMPANY

MANUFACTURING CHEMISTS and WHOLESALE DRUGGISTS

We especially invite inquiries for

FURNITURE CREAMS EMULSIONS
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White Horse Street, LEEDS. Telephone: 3574 Central (4 lines).

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., New-St. Square, E.C. 4; and Published by the Proprietors

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JULY 21, 1917

This Supplement is Inserted in every number of The Chemist and Druggist.

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—HAYMARKET (Near).—High-class Dispensing and Retail Business; returns about £1,200; *gross profit between £650 and £700*; the business is known to us, and we can recommend it; valuation terms.

2.—BANKS OF THE THAMES.—Retail and Dispensing Business; very good connection with local medical men; returns last year £1,870; *net profit* £461 (proof given); price £850; stock and fixtures recently valued at £650.

3.—MIDDLESEX (Distant Suburb).—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.

4.—LONDON, S.W.—Good middle-class Retail and Dispensing Business; returns show a steady increase and are now over £1,600; well-appointed shop, handsomely fitted in mahogany, in modern style and fully stocked; vendor will accept first reasonable offer.

5.—SURREY (Suburban).—Good-class Retail and Dispensing Business, with Optical connection, in select residential district; returns about £2,500 per annum; terms, valuation of stock and fixtures and sum for goodwill to be agreed equitably.

6.—LONDON (Southern Suburb).—Medium-class Family trade; well established; turnover averages £925; *gross profit* £355; comfortable residence; rent £45; sub-let £13; no near opposition; price £400, or valuation of stock and fixtures.

7.—LONDON (Northern Suburb).—Situate in main shopping thoroughfare; well-established Business; increasing income; returns between £1,000 and £1,100; *profits exceed the usual rate of middle-class business*; well-fitted shop and comfortable residence, with garden; price £600.

8.—HOME COUNTY (Death Vacancy).—Good middle-class Retail and Dispensing Business, situate in the centre of town; returns average about £1,650 at fair prices; scope for development; price about £750.

9.—BOURNEMOUTH.—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill, £100, stock and fixtures by valuation.

10.—SOUTH COAST.—Unopposed Mixed Country Retail Business, with own Proprietaries; steadily increasing returns; now between £1,300 and £1,400; rent £45 for double-fronted shop and good seven-roomed house and garden; terms, lease, and goodwill £120; stock and fixtures at valuation.

11.—SUSSEX (Health Resort).—Retail and Dispensing Business, situate in shopping thoroughfare in chief business centre; returns between £1,400 and £1,500; gross profit last year £570; well-appointed shop and comfortable residence; price about £1,000.

12.—HOME COUNTY.—Ready-money Retail; no N.H.I.; main road position; returns, present rate, between £1,800 and £2,000; *net profit about* 25 per cent.; price £500, or valuation if preferred.

13.—PARTNERSHIP.—A Partner required in very old established Business situate in a Home County; a gentleman with small capital would not be objected to; returns, including Branch, £3,650.

14.—HANTS.—Old-established Business, essentially Dispensing and Family Retail; position unique; returns £2,500; under modern management an opening presents to considerably augment the turnover; terms, valuation of stock and fixtures, less a substantial rebate; vendor retiring.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

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The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

FOR SALE.

LANCASHIRE.—Branch in industrial town; takings last year £750, excluding N.H.I., which averages 400 per month; military reasons for disposal; reasonable Stock; good going concern; growing neighbourhood; no near opposition; increase certain with personal attention; modern house attached; price £250 or valuation. "Salol," c/o Ayrton & Saunders, Hanover Street, Liverpool.

LANCASHIRE COAST; beautiful district; sound Business, doing £10 to £12 weekly under unqualified management, without advertising or own Specialities; could be doubled at once by a Pharmacist who would advertise a little and go on telephone; shop well fitted and stocked; rent only £25; price £300 or near offer. Apply 23/37, Office of this Paper.

LONDON, E.—Cash Drug Stores for Sale; over £600 turnover in two years of starting; well stocked, and a good local trade; no opposition whatever; reason for selling, illness of wife and proprietor in the Army. For further particulars write to 21/20, Office of this Paper.

LONDON, S.W. (Suburb).—Drug Stores; sound concern; good stock; nice shop and house, small garden, side entrance; returns £600 to £650, increasing; let off £16; valuation, stock, and fixtures only; a grand opportunity for qualified or unqualified man; no photo, optics, or dispensing; illness cause of sale. Apply 22/9, Office of this Paper.

MANCHESTER DISTRICT.—Light Retail Pharmacy principal thoroughfare Cheshire town; 1916 turnover £1,100, and Insurance scripts 5-600; attractive window; handsome mahogany fittings; security tenure; satisfactory reason sale; stock fixtures valuation; business old-established and thoroughly sound; cash offers only entertained. Apply 21/14, Office of this Paper.

MIDLAND CITY.—Dispensing and Photographic Business; nicely fitted, electric light; main road; district being largely developed; no qualified opposition; returns average £2,500 at good prices; few Patents; big Drug and Sundries Stock; Insurance Prescriptions 6,000 year; profitable Agency; owner anxious to join Army; cheap to quick purchaser. Apply 23/3, Office of this Paper.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house attached; price £450 or valuation.

3.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked, price £375; strongly recommended.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; splendid house; own property; price £400 cash.

5.—BIRMINGHAM.—Very profitable Cash Retail; changed hands once in 26 years; returns over £950; net profit £320; well-fitted shop, heavily stocked; genuine reasons for selling; price £450.

6.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hands 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

7.—LONDON, S.W.—Profitable Cash Suburban Retail; entirely under manager; present returns between £800 and £900; plenty of scope; rent £50, let off £26; well stocked; main-road position; price £20 and valuation, about £350; manager called up.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

MESSRS.

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On TUESDAY, JULY 24, 1917.

Merchants and others having Saleable Stocks of any kind for disposal may include same in any of these periodical Sales. Terms upon application.

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BUSINESSES FOR DISPOSAL (*continued*).

MIDLANDS.—Immediate Disposal, excellent Business; main road; thickly populated neighbourhood; established 50 years; mahogany fitted; well stocked; genuine going concern; books kept; bears strictest investigation; rent £40, house, UCAL thrice pays rent; Gas Agency attached, brings £30 annum; Optical, Insurance; takings £900, increasing; could be doubled with assistance; net profit over £300; great sacrifice; strongly recommended; £450 or valuation, or seaside Business exchanged entertained. "Chemist," 7 Enderley Buildings, Bellefield Road, Birmingham.

BY ORDER OF THE EXECUTORS.

SURREY (Guildford).—For immediate Sale, old-established Chemist and Photographic Business; Stock and Fixtures at valuation; rent £80 per annum. Apply Heath & Salter, Auctioneers, Guildford.

FOR IMMEDIATE DISPOSAL.—Small Country Chemist's Business, about 40 miles from London; established over 100 years; no opposition within 4 miles; returns for last three years average about £700 per annum. Full particulars of Francis Nicholls, White & Co., 14 Old Jewry Chambers, London, E.C. 2.

FOR Sale, as a going concern, a newly-equipped Tablet Works; machinery gear and equipment in first-class running order; present Manager enlisting; would entertain amalgamation with established firm; financial assistance would be given. Bona-fide applicants only apply "Stokes" (100/100), Office of this Paper.

FOR immediate Disposal through ill-health, an old-established Agricultural and Family Business in a good market town in Lincolnshire; new front and modern fittings; returns about £1,500, leaving excellent profit. Apply "Business," c/o Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

FOR Sale, a well-established Retail Business in a mining district, Mid-Durham; no competition; returns average £700 yearly, exclusive of N.H.I. Further particulars on application from bona-fide inquiries to W., c/o Wilkinson & Simpson, Ltd., Newcastle-on-Tyne.

FOR SALE, owing to illness, an old-established Pharmacy located near King's Cross Station, N.; splendid opening for a young Chemist starting. Apply, in first instance, to W. T. P., 72 Tremadoc Road, Clapham, S.W.

£45, FIXTURES and Fittings; Stock at valuation, about £50 to £60; new and saleable; selling owing to war; returns under Manager (unqualified), 1915 £500, 1916 £542; rent £35; nice house, recently decorated; healthy suburban district near Crystal Palace; suit elderly man. Reply "X." (22/240), Office of this Paper.

FOR SALE.

COMPLETE Fittings small Pharmacy; whole or part premises on lease; Show Cases, Counters Bottles. Downing, 39 Elm Road, Plymouth.

FOR Sale, second-hand Castor Oil Tins, 20 gross, and Petrol Tins with screw necks (2-gall. tins), 20 gross. Apply quickly to 19/25, Office of this Paper.

FOR Sale, 12 oz. Pot. Permang, 10*s.*; 6 oz. Phenagonum, 16*s.*; nearly new Sparklet Syphon Machine; six dozen empty D. Bulbs and Ten Syphons for £3 5*s.* the lot; personal Weighing Machine (Fairbanks), to weigh 28 stone, £3 10*s.*, in perfect condition. Apply 24/35, Office of this Paper.

SLIGHTLY used National Cash Register (second-hand); must sell at once; prints tickets; low price for quick sale. Write to F. Nicholls, 20 Bingfield Street, N.

BUSINESSES WANTED.

BUSINESS wanted in or near London; neglected one not objected to, but must be scope to increase. Full particulars to 22/8, Office of this Paper.

BUSINESS required in Liverpool district or Wirral; house with modern conveniences; little N.H.I. Dispensing or none. W. Thomas, 17 Rockfield Road, Anfield, Liverpool.

AGENCIES.

RUSSIA.—Large Exporting Merchants are prepared to cable offers of all and every kind of General Merchandise *en route* to or already arrived in Russia on receipt of full details as to prices, etc.; either c.i.f. Finnish Port or Archangel, or delivered Petrograd, Moscow, etc. Apply 80/35, Office of this Paper.

TO Perfumers, Manufacturers of Packed Goods, etc.—Fully-qualified Chemist, who has just completed an engagement, is open for a permanent position of responsibility; can initiate design and place on the market packed goods of all kinds; is a thoroughly practical Perfumer, and well up in every branch of work; can travel and sell own lines; understands card-index systems, form-letter advertising, mail-order systems, and everything in connection with proprietary work. Apply "X. Z." (23/20), Office of this Paper.

WANTED, by London Representative with sound connection and 22 years' experience representation of firms dealing in Chemicals, Pharmaceuticals, Proprietaries, Toilet Articles, Druggist Sundries, etc., etc., *on commission*; excellent references; energetic and resourceful. Apply 75/39, Office of this Paper.

TO LET.

BATH.—Shop and Dwelling-house in best part of City; for many years carried on as a high-class Dispensing Chemist's; now vacant; tenant retiring; fixtures at valuation; no goodwill to pay for; suitable for lady Chemist. For rent and full particulars apply Mogers, Solicitors, Bath.

PARTNERSHIPS.

ADVERTISER, over military age, married, unqualified, desires Partnership in good working-class Chemist's where Dentistry could be introduced; or would like to meet qualified man, ineligible, discharged or over military age, with little capital, to purchase Business as a going concern. Apply "Dental" (22/40), Office of this Paper.

PARTNERSHIP with view to complete succession offered to capable Pharmacist; must be ineligible; good Salesman, and of good address and appearance. Please send full particulars, capabilities, and experience had to 22/800, Office of this paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have **replies** addressed to this Office, and forwarded on **payment of an** additional charge of **6d.**

RETAIL.

BERKHAMSTED.—Wanted, Lady Assistant for Dispensing and Stock. State salary and experience to "The Pharmacy," 158 High Street, Berkhamsted, Herts.

BIRMINGHAM.—Capable unqualified man required to manage a Drug Store; must be over military age or have been rejected; salary and good commission on profits; lucrative berth to an energetic man. "Stores" (21/105), Office of this Paper.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (21/102), Office of this Paper.

BLACKBURN.—Unqualified Assistant or Junior required; ineligible; Wholesale and Retail; active. State reference and wage required to C. A. Critchley & Co., Chemists, 10 King William Street, Blackburn.

BLACKHEATH.—Qualified lady or gentleman required as Managing Assistant about end of August; not over 30; first-class Dispensing and Retail business; good salary to really competent Assistant. Full particulars of previous experience, with photo if possible, J. H. Bailey, Pharmacist, 61 Old Dover Road, Blackheath, S.E. 3.

BRAINTREE.—Lady Assistant for Dispensing Counter; comfortable post; easy hours. State experience and salary required, Herbert Jenkins, F.C.S., Braintree, Essex.

BRIGHTON.—Dispenser required for N.H.I. and middle-class Business; indoor or outdoor; one used to Counter work and Manufacturing ordinary Preparations; state full particulars. Savage & Co., Pharmaceutical Chemists, Brighton.

BRIGHTON.—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

BRISTOL.—Qualified Assistant to act as Relief Manager during holidays; permanent berth for competent man. State age, salary, references, etc., to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

BUXTON.—Assistant, Improver, or Lady (with some experience) required immediately, either temporary or permanent; comfortable indoor berth. Apply, with particulars, age, photo, references, salary, experience, to A. Thresh, Pharmacist, Buxton.

CROYDON.—Assistant wanted for General Retail and Dispensing; capable and reliable. Apply, stating experience, references, salary, etc., Barron, Chemist, 77 High Street, Croydon.

DERBYSHIRE.—Wanted at once, unqualified Assistant, used to general shop routine and N.H.I. work; good recent reference essential; lady or gentleman (ineligible); good salary; easy hours. Apply 20/18, Office of this Paper.

DUNSTABLE.—Lady Assistant required in pleasant healthy town 34 miles from London; moderate hours; no Sunday or after business duty; Light Retail and Dispensing; two girl apprentices kept; work not onerous; inexpensive lodgings obtainable. Apply, stating age and full particulars, with salary required, to J. H. Herington, Pharmacist, Dunstable.

EALING.—Required, an Assistant, lady or gentleman, temporary or permanent. Please send full particulars experience, salary required, to W. A. Weston, 8 Sandringham Parade, Ealing.

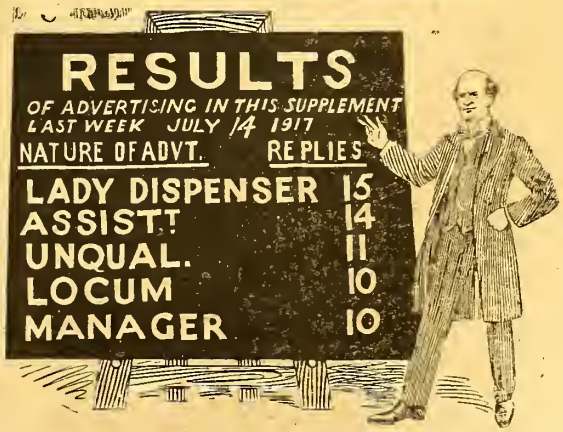
EASTBOURNE.—Competent Assistant required (lady or gentleman) for good-class Dispensing business; with knowledge of Photography preferred; outdoors. In reply state full particulars as to age, experience, and salary required, F. Temple, Meads, Eastbourne.

EXETER.—Competent Assistant; unqualified; either sex; good-class Business experience or Hall certificate; references and usual particulars and salary required. Hinton Lake & Son, Ltd.

GLOUCESTER.—Qualified Assistant required in August to manage Branch Shop; ineligible for Army or over military age; comfortable house, with garden; a lady with Retail experience would be considered. Hargreaves & Co., 3 Barton Street, Gloucester.

HALIFAX.—Wanted, a capable, unqualified Assistant, lady or gentleman (latter must be ineligible for military service); short hours; no Sunday or holiday duty; a good permanent berth and liberal salary to the right person. Apply, stating age, height, and salary required, with recent references, to Taylor's (Northern), Ltd., 4 Crown Street, Halifax.

LEEDS.—Wanted, Locum Tenens for Retail and Dispensing Department August 20, for four weeks. Reynolds & Branson, Ltd., 14 Commercial Street, Leeds.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

LIVERPOOL.—Assistant wanted (lady or gentleman) for good-class Retail and Dispensing (outdoors); hours 8.45 A.M. to 8 P.M., Saturdays 9 P.M.; half-day weekly. Apply, giving experience, age, salary, etc., to S. S. Holford, 86 Allerton Road, Liverpool.

LIVERPOOL.—Assistant; qualified; middle-aged or elderly; comfortable post; hours 9.30 to 8 P.M.; half-day weekly; alternate Sunday 6 to 8 P.M. Apply, stating salary (photo if possible), 23/10, Office of this Paper.

LONDON.—Qualified man, ineligible for Army, for brisk Counter trade; whole day holiday a week; occasional Sunday duty. Apply personally, or write stating full particulars and salary required, to Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, E. 2.

LONDON, E.—Lady Assistant Required, Hall certificate, for Dispensing, Counter work, and Stock; good-class business; reasonable hours; must have had experience in a Pharmacy. Apply, stating fullest particulars as to experience, salary required, etc., to "Salol" (24/25), Office of this Paper.

LONDON (near), Sutton, Surrey.—Wanted, reliable Dispenser, lady or gentleman; one not objecting to assist at Counter; outdoor; easy hours and liberal salary. Apply Cooper, Chemist, Sutton.

LONDON (POPLAR DISTRICT).—Young lady Assistant required for progressive Chemist's establishment; permanency; must have had some Counter and Dispensing experience. "Poplar" (21/101), Office of this Paper.

LONDON, N.—A Dispenser wanted for two weeks by a firm of Doctors. Apply to Drs. C. B. and C., 124 Stroud Green Road, N. 4.

LONDON, N.W. (Hampstead Heath).—Lady Dispenser wanted; whole or part time. Please give usual particulars, stating salary required, or call after 2 P.M., H. Williams, 31 Heath Street, Hampstead.

LONDON, N.W.—Lady Assistant required, with some Dispensing experience and good handwriting. Apply W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, S.E.—Evening help required with Counter and N.H.I. Dispensing. Apply, personally or by letter, Davies, Cash Chemist, 374 Old Kent Road, S.E. 1.

LONDON, W.—Outdoor Assistant wanted at the Dispensing Counter of a high-class Business; no N.H.I.; must have served a regular apprenticeship and be well recommended; hours 8.30 to 7, Wednesdays 8.30 to 1; duty every third night and every third Sunday. Apply, giving full particulars, to Mr. Lewis, Chemist, Ealing, W. 5.

LONDON, W.—Manager, qualified, experienced man, about 45, for good middle-class Business in West End, near Baker Street; must be reliable, a good Salesman, and have satisfactory references; permanency to the right man. Apply, giving full particulars of experience and salary required, 22/24, Office of this Paper.

LONDON, W.—Lady Assistant wanted at once for putting up orders in Drug Department and for occasional Counter work; must have had Pharmaceutical training; hours of business 9 till 6. Apply by letter, with particulars of experience and salary required, to Hospitals and General Contract Co., Ltd., 19/35, Mortimer Street, W.

LUDLOW.—Wanted, a capable unqualified Assistant; over military age or rejected; short hours; no Sunday; half-day weekly; salary 50s.; give usual particulars and references. Woodhouse & Son, Chemists, Ludlow, Salop.

MANCHESTER ROYAL INFIRMARY.—Pharmacist required; hours 8.30 to 6; half-day holiday weekly. Applications, stating age, experience (Hospital or otherwise), salary required, accompanied by recent testimonials, to be addressed to the General Superintendent.

MANCHESTER.—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" (21/104), Office of this Paper.

MANCHESTER DISTRICT.—Qualified Manager required for good-class Branch; also Junior Assistant (both outdoors). Apply, stating references, salary, etc., and enclosing photo (to be returned), to T. Woodruff, Ph.C., Cheadle, Cheshire.

MANCHESTER.—MOTTERSHEAD & CO. require an experienced Dispenser accustomed to high-class business. Reply, giving full particulars of experience, with age and salary expected, 7 Exchange Street, Manchester.

N.W.—ACTIVE and competent Assistant for good-class Dispensing and Counter work; outdoors; ineligible for military service; not much N.H.I. work; reasonable hours; please state experience, salary required, and if free. S. P. Sayers, 7 Brent Street, Hendon, N.W. 4.

NORTHAMPTON GENERAL HOSPITAL. (298 beds.)

WANTED, Assistant Dispenser (if male, ineligible for military service); salary £90 a year, with luncheon; candidates must be qualified Dispensers, and competent to undertake the Developing and Printing of X-Ray Photographs. Applications, stating age and qualifications, to be sent to

C. S. RISBEE,
July 18, 1917. Secretary-Superintendent.

NORTHUMBERLAND.—Qualified Assistant required; high-class Light Retail; short hours (46 hours per week); no Sunday duty; suit elderly or delicate man. State full particulars and salary required to Wilson, Chemist, Corbridge.

SALFORD.—Wanted, Qualified Assistant; ineligible or over age; must be good Salesman and Stockkeeper. Copy of last reference and salary required to Shand & Orr, 301 Regent Road, Salford.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES.—Thoroughly reliable lady Assistant for Mixed business in colliery district; must be good Dispenser and Window-dresser; hours 9 to 8, Saturday 9, half-holiday Thursday; no Sunday duty; salary, according to experience, 30s. to 40s.; outdoors. Apply, giving full particulars first letter, to Francis, Chemist, New Tredegar.

SOUTHSEA.—Assistant, ineligible, required at end of August for Dispensing and Photo business. Apply, stating experience and salary required (indoors), to Cruse & Co., Ltd., 63 Palmerston Road, Southsea.

STAFFORDSHIRE.—Locum Dispenser, lady, qualified, wanted for Doctor for six weeks from August 13. Apply 24/16, Office of this Paper.

THE LORD DERBY WAR HOSPITAL, WARRINGTON.—Wanted, Temporary Dispenser (female); must be fully qualified; salary 35s. per week. Applications, stating age, experience, qualifications, and references, must be sent to the Administrator at once.

THE ROYAL INFIRMARY, SHEFFIELD.—Dispenser, qualified (male or female) required for August; hours 9 to 5; no Sunday duty. Write immediately, stating salary and all particulars, to the Secretary.

THE SOUTH LONDON HOSPITAL FOR WOMEN.—Assistant Dispenser required for Out-patient Department, Newington Causeway, S.E.; salary 30s. weekly. Applications, stating age, qualifications, and experience, together with copies of testimonials, to be forwarded immediately to the Secretary at the Hospital, South Side, Clapham Common, S.W. 4.

TUNBRIDGE WELLS.—Qualified Manager, capable and reliable, able to control; Dispenser and Stockkeeper kept; permanent (outdoors) to competent, smart man; good salary. Pearmund, Chemist, Calverley Road.

WAKEFIELD.—Manager, qualified, energetic, obliging, for middle-class Pharmacy, general prescribing, N.H.I. and Light Retail, with view to purchase if suitable, or otherwise; exempted if of military age. Apply, stating full particulars, with references and salary required, Green, Bella-Vista, Eastmoor Road, Wakefield.

WINDSOR.—Locum wanted for three weeks in August or early September for Light Retail and Dispensing business. Apply, stating salary (indoors or outdoors), with references, to R. W. Houfe, Pharmaceutical Chemist, Windsor.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (21/103), Office of this Paper.

ASSISTANT wanted (qualified) for Dispensing Counter; ineligible for Army or over military age; outdoors. Apply L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

ASSISTANT (ineligible for military service), or lady Assistant used to Dispensing and Counter; comfortable berth; two kept; please state age, experience, salary (outdoors), and latest references. Bevan & Son, Pharmacists, Colchester, Essex.

ASSISTANT wanted; accustomed to good-class Retail and Dispensing; outdoors. Burden & Co., Dispensing Chemists, 41 Store Street, Bedford Square, W.C. 1.

ASSISTANT, unqualified, in a Mixed Light Retail business, with some Insurance Dispensing; outdoors; no Sunday duty. Apply W. H. Jones, Chemist, Mountain Ash.

AUSTINS, LTD., have a vacancy for a qualified Assistant (lady or gentleman) at their Retail Pharmacy, 198 Bermondsey Street, S.E.; good references essential; applicants resident in London may 'phone Hop 1894 to make appointment for interview. Austins, Ltd., 196/202 Bermondsey Street, London, S.E. 1.

BRANCH Manager (qualified) wanted immediately; must be over military age or ineligible; knowledge of Photography essential; good salary to good man. Apply 22/30, Office of this Paper.

BRANCH Manager; qualified; Light Cash Retail business, main thoroughfare of Bristol; exempt if of military age; living accommodation if required; no stock to pack; short hours; easily worked business; to a capable and energetic person every consideration given, ensuring a most comfortable berth. Please state when disengaged, age, salary required, to 22/28, Office of this Paper.

COMPETENT Counter-Assistant (lady); must have had good previous experience. Also qualified Assistant for evening work and to relieve duties. Please give full particulars of experience, salary required, etc., to Frank A. Rogers, 327 Oxford Street, W. 1.

DISPENSER wanted at once (lady or gentleman) for 2 months; salary £2 10s. per week (outdoor); Cash and Panel practice. Dr. Henderson, 25 Commercial Road, Peckham, S.E. 15.

DISPENSER wanted, lady or gentleman, for small country Business; one willing to assist in shop preferred. Apply, with full particulars, to H. Wilson, Chemist, Standish, near Wigan.

DISPENSER and Counterman wanted (unqualified), with some Photographic experience; must be ineligible or over military age. Apply, stating salary required, and enclosing, if possible, recent photograph, to "Progress" (22/301), Office of this Paper.

EXPERIENCED, well recommended Lady Assistant required for Counter and Dispensing help in good-class Pharmacy in S.W. London for two weeks beginning July 30; salary 45s. weekly. Applicants please give full particulars, including references, in first communication to "Streatham" (23/6), Office of this Paper.

IMMEDIATELY, Assistant required; young lady or youth under military age (just out of apprenticeship preferred); easy berth; no Insurance dispensing; half-day off and early evening from 5 P.M.; salary and commission. Send photo (to be returned) and terms to Reynolds's Central Pharmacy, 6 Nile Street, Woolwich, S.E. 18.

JUNIOR Assistant (ineligible for military service) or Lady Assistant for good-class country business; outdoors; healthy town; pretty district. Apply, stating age, experience, salary, and references, Ridley, Ph. Chemist, Tenterden, Kent.

LADY Assistant wanted for Counter and keeping stock (for King's Heath branch). Give full particulars as to experience, salary, etc., with photo if possible, to Chas. Thompson & Sons, Chemists, Sparkbrook, Birmingham.

LADY Junior Clerk required; some previous experience necessary. Apply, stating salary required, to Roberts & Co., 76 New Bond Street, W.

LOCUM or Temporary Manager; qualified; steady and reliable; Manchester or Huddersfield district preferred; disengaged from August 1. Cottrell, Chemist, Delph, Oldham.

LOCUM Wanted first fortnight in September, near London. Roberts, Farnham Common, Slough.

MANAGER FOR GOOD PROVINCIAL RETAIL; Easy hours; well-conducted business; good salary; some knowledge of Spectacle Optics preferred. Opportunity to release Manager (category A) for Military Service. Particulars to and from "W. E. E." (22/3), Office of this Paper.

MANAGER (lady or gentleman) for high-class Dispensing business, Islington; also part-time lady. Apply 71 East Hill, S.W. 18.

MANAGER, unqualified, for Branch; Outer London; practically sharing terms; outdoors; no Sunday work; no Dispensing, no Poisons; technical knowledge not so important as salesmanship, Window-dressing, and Business capabilities; comfortable permanent berth for right man. State definitely age, experience, and salary expected to 23/11, Office of this Paper.

MANAGER at once; must be ineligible for military service and trustworthy; permanency for suitable man; state experience and salary required; references must bear investigation. "Aspirin," 58 York Road, Waterloo Station, S.E.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

OUTDOOR Junior or part-time Assistant wanted at once or soon for good-class Retail and Dispensing business in S.W. district; near several Schools of Pharmacy. Apply with usual particulars, enclosing photo, to Banbury, 390 Walworth Road, S.E.

QUALIFIED Assistant (elderly gentleman, lady, or invalid soldier) wanted in a pleasant district a few miles from London; easy hours; duties arranged to suit; method of living as desired; no Sunday duty; weekly half-holiday; personal interview desired. Fullest particulars to 21/12, Office of this Paper.

QUALIFIED Assistant (lady or gentleman) required for the end of July. Apply, with full particulars, to F. W. G., Allen & Hanburys, Ltd., 7 Vere Street, W. 1.

QUALIFIED Manager, age about 46, required immediately for Relief work; Yorkshire and Lancashire; permanency afterwards if satisfactory. "Relief" (21/10), Office of this Paper.

QUALIFIED Branch Manager near Holborn; very easy berth; good salary and commission; permanency. Apply Bewells, Ltd., 19/21, Pitfield Street, N.

QUALIFIED Branch Manager wanted immediately, ineligible for Army, for good-class Dispensing business in West of England; living accommodation if required; every consideration; permanency. Full particulars first letter to 23/16, Office of this Paper.

QUALIFIED Assistant required for Retail and N.H.I. Dispensing business in S.E. London; preference given to one ineligible for military service and able to produce satisfactory credentials. Apply 24/24, Office of this Paper.

WANTED (August 1), competent qualified Assistant; outdoors; lady or gentleman; if gentleman must be ineligible. Send full particulars, age, salary, etc., to Green, Chemist, Southborough, Tunbridge Wells.

WANTED, a qualified Assistant, lady or gentleman (exempt from military duty). Apply, stating age, experience, and salary required (permanent position for a suitable person), to Walker & Darling, Chemists, Tyne Dock, and South Shields, co. Durham.

WANTED, Lady Assistant (indoors) for a Dispensing and Light Retail Business; also an Evening Assistant. R. B. Betty, 1 Park Street, Gloster Gate, Regent's Park, London.

SEVERALLS ASYLUM, COLCHESTER.

WANTED, a qualified Dispenser as Locum Tenens for three weeks in August; lady preferred; salary 2½ guineas weekly, with dinner and tea daily. Apply to the Medical Superintendent.

WORKING Manager in first-class Dispensing business; preference given to one who would live on premises; salary £250, or equivalent; must be competent to take entire charge of large business. Apply 24/30, Office of this Paper.

YOUNG Lady Assistant for Counter and Dispensing; must have had previous experience; no one with Doctor's experience only need apply. "Pills" (22/300), Office of this Paper.

WHOLESALE.

ASSISTANT in Surgical Instrument business in provinces. Address, stating age, duties accustomed to, and wages expected, 61/59, Office of this Paper.

DRUGGIST.—Wanted, Working Foreman; ineligible or discharged; making Balsams, Inks, etc. State age, experience, wage, and references, Burdall & Burdall, Anchor Works, Sheffield.

SURGICAL INSTRUMENT DEPARTMENT.

HOSPITALS AND GENERAL CONTRACTS CO., LTD., 19/35 Mortimer Street, London, W. 1, require the services of Showroom Assistant (male or female) Hours 9 to 6, Saturdays 9 to 1.

LABORATORY.—Working Assistant wanted at once; must be ineligible or C3 man; one accustomed to the manufacture of Galenicals and other Pharmaceutical Preparations. Apply, stating salary required and when disengaged, to "Syrup" (22/302), Office of this Paper.

LADY Assistant, with practical knowledge of the Drug Trade, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

LEDGER and Invoice Clerk, Despatch Clerk, Warehouse Hands, and Packers. Jules Denoual & Co., Carlton Works, Asylum Road, S.E.

MEDICINAL Tablet Maker wanted by firm of Wholesale Druggists, thoroughly experienced man, to take charge of plant and control staff; permanent situation and liberal salary offered to a really capable man. Reply, giving fullest particulars of previous experience, etc., to 81/69, Office of this Paper.

PACKER accustomed to putting up Chemist's Stock. Give full particulars to "A. J. B. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road, S.W. 7.

QUALIFIED Lady Assistant required for light and instructive employment by a leading firm of Manufacturing Chemists; preference given to one who has had retail experience; hours 9 A.M. to 6 P.M., and 9 A.M. to 1 P.M. on Saturdays. Apply, enclosing photograph (to be returned), stating age, experience, and salary required, to 33/17, Office of this Paper.

RUSSIAN, well known among Wholesale buyers, thoroughly experienced in the Perfumery, Essential Oils, and Chemical trades, representing a prominent British firm covering the whole of Russia and Far East, will be free after the war to represent a first-class firm or firms in that direction; good references given; would meanwhile furnish with full details of the most suitable lines for that market. Address 23/29, Office of this Paper.

SMART man wants to represent first-class House Counties of Durham, Cumberland, Northumberland, and Westmorland, for duration of war; good opportunity for firm whose traveller has been called up. Apply 23/28, Office of this Paper.

MISCELLANEOUS.

DRUGS.—A Manufacturer has sundry Drugs listed at about £100 for disposal as a whole; can be seen by arrangement. Please apply by letter only to Mr. Taylor, c/o Hyde's Bird Seeds, Camberwell, S.E. 5.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesman, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

Prosthetic Dentistry

G. COVERDALE & SONS,
19 & 20 Parliament Street, York.
MECHANICS TO THE DENTAL PROFESSION.

Our Workrooms are most elaborately fitted up with all the latest electric appliances for the turning out of—at lowest possible prices and at shortest notice—Real High-class Work. We can guarantee absolute success with good models and bites. Our mechanics are experienced in all branches of Dentistry.

Write for our Price List.

We specialise in all Vulcanite Work and Repairs.

THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be **WELL** and **QUICKLY** done. We are experts, and return all work received by first post on same day. We pay return postage. Send for our list and give us a trial.

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CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
Lowest Market Prices Charged.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior Quality. No advance in price.
6 and 8 ounce ... ... 1s. per gross, in 6 gross bags.
Vials ... ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.
Established 100 Years.
Bankers: London County and Westminster Bank, Bloomsbury Branch.

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for June 30, p. xxxvi.

WANTED.

Aspirin (Bayer's original) grains 5 and 7½ (23/19)
Bromural tablets (22/26)
Chinoral (1917/7)
Colgate's shaving - sticks (1917/7)
Chinosol soloids (1917/7)
Creme Simon (1917/7)
Ems Kranschen water (1917/7)
Elcaya creme (1917/7)
Eugallol (1917/7)
Euresol pro capillis (1917/7)
Glycerin B.P. guarantee given (23/31)
Glycerin (22/37)
Lactic acid (23/31)
Naftalan (1917/7)
Phenacetin (1917/7)
Pond's vanishing-cream (1917/7)
Potass. caustic, pure or commercial, small or large quantities (78/43)
Protargol (1917/7)
Rhinoculin cream (1917/7)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

FOR DISPOSAL.

DENTAL.

FOR Sale, 12 Dental Show-pieces. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

POT. Permang. small Xtl., 2 lb., at 15s., carriage paid. "Bruno," 141 St. James's Street, Burnley.

1 OZ. Strychnine Pulv., 3s. 6d.; 500 Tab. Caffein Co. (Phenazon gr. iv., Caffein gr. i.), 3s. 6d. per 100; 300 Tab. Sulphonal gr. v., 2s. 100; 1 bottle Antimeristein; offer wanted. Sharman, Northwood.

WHAT Offers? 4 oz. Calc. Lactophosph.; 1 lb. Aloin 1-gall. Vin. Pepsin; 3 lb. Alumin. Acetate; 3 lb. Calc. Glycerophosph.; ½ lb. Ext. Ergotæ; 4 lb. Antim. Tart.; 12 lb. P. Jalap; 6 lb. Pulv. Ipecac. Co.; 3 lb. Pulv. Cubebæ. Apply Frank Edwards, Ltd., Chemists, Cardiff.

OPTICAL AND PHOTOGRAPHIC.

60 MICROSCOPIC Slides, 2s. dozen, 8s. 6d. lot; approval; exchange books, anything. Smith, 204 Northfield Road, Sheffield.

MISCELLANEOUS.

FOR Sale, Water Bed, 36 × 48; good condition. Offers to Snow, Pharmacist, Marlow.

WHAT Offers? 3 doz. Rednall's Anti-Smut Powder. Frank Edwards, Ltd., Chemists, Cardiff.

ADVERTISING Sign, 14 in. by 18 in., handsomely framed, suitable for any window, and complete Box of changeable Metal Letters; quite new; cost 35s.; accept 22s. 6d.; approval. C. D., 100 Morshead Mansions, Maida Vale, W. 9.

WANTED.

WANTED, Glycerin. Sharman, Northwood.

TABLET Machine for power; give full particulars. Walton, Batley Carr.

SACCHARIN wanted. Give full particulars to Walton, Chemist, Batley Carr.

WANTED, Colton's Tablet Machines, 2 B. J. D., Carlton Works, Asylum Road, S.E.

WANTED, Optical Trial Case, up to date register. Address 22/33, Office of this Paper.

WANTED for cash, Photographic Plates, Cameras, Mounts, sundries. Wilsons, Chemists, Wigan.

KODAK with good lenses wanted. Particulars and prices to Bishop, 460 Holloway Road, London, N.

SALICINE; large or small quantities; spot cash; state price and quantity. Russell, 27 Store Street, W.C. 1.

ENTERPRISE (small) Fruit and Vegetable Press. Brown, Chemist, Hope Street, Hanley, Stoke-on-Trent.

MATERIA Medica Specimens; set wanted in good condition; cheap. Also Minor Books. D. R., 10 York Road, Newport, Mon.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, Kodak Upright Developing Tanks and Accessories, Brownie Developing Tanks (new); enlarging lantern for gas. Apply 21/9, Office of this Paper.

FORMULA for good Garden Pest Destroyer, wireworm, greenfly, ants, etc.; state whether poisonous, harmful to plants, approximate making cost. Russell, 27 Store Street, London, W.C. 1.

TIN Boxes. Advertiser is open to purchase, in large or small quantities at good prices, tin boxes measuring 2¾ to 3 in. long by 2 in. wide, ⅝ or ¾ in. deep, or approximating thereto; not necessarily new. Particulars to 79/30, Office of this Paper.

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